December, 1957 50 cents

PACIFIC FISHERMAN

Japanese Turn Down Cessation Zone . . . p 9

Seafood Diet Helps Artery Disease p35

PUNGENT PROMOTION — San Francisco wholesalers score a whale of a triumph by trucking one up Market Street in their 1957 National Fish Parade feature.

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B.F.Goodrich

Float insurance for a $40,000 net

"There's nothing like Spongex® plastic seine floats. They are light, tough, durable and economical—and the best possible insurance for protecting a net" says Anton Misetich, skipper and part owner of the Anthony M, San Pedro, California.

"Our net cost about $40,000", he continued, "but its worth at sea exceeds all monetary considerations. Since our livelihood depends on this net, it is simply good business and common sense to use the finest seine floats.

"To support the net we use 4920 Spongex floats—with cork we would need 6560. Besides this, Spongex floats are three times lighter and do not become water logged with continued use."

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group of 150 boats using over 200,000 Spongex floats.

Mr. Mason Case, general manager of the Cooperative, which incidentally is the largest fish producing organization tonnagewise in the nation, says, "Spongex floats have a very small replacement factor, occasioned only by accident—the breakage average in four years' experience is about 1% per year. The proof of their success is shown by the fact it's the only float we can sell today".

Spongex floats are available in a variety of sizes ranging from 1½" x 3" to 6" x 7½". If you are interested in having Spongex floats for your fishing operation, write to B. F. Goodrich Sponge Products, a division of The B. F. Goodrich Company, 345 Derby Place, Shelton, Connecticut.

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Our Fifty-Fifth Year— DECEMBER 1957
Vol. 55 No. 13

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Will Congress Bar Fish Illegal for Americans?

● Closure of the United States market to imported fish produced under conditions from which American nationals are barred by law will be sought of Congress when it reconvenes in January.

This became plain at a hearing conducted in Seattle November 27 by Senator Warren G. Magnuson of Washington, chairman of the U.S. Senate's Committee on Interstate and Foreign Commerce, which handles fishery matters in the upper house.

Congressman John F. Shelley of San Francisco announced by telegram that he would introduce such a measure in Congress.

Senator Magnuson indicated he would support such a measure, but believed the action should be preceded by a formal request by the American Section of the International North Pacific Fisheries Commission for an immediate meeting of the commission, with consideration of an emergency zone where there would be cessation of fishing intermingled stocks by anyone as a primary subject on the agenda.

The implication was left that, should Japan and/or Canada reject the proposal for such a meeting, the senator would press for enactment of legislation to exclude fishery products taken under conditions forbidden to American nationals. As U.S. citizens are prohibited from catching salmon on the high seas by means of nets, it is obvious that the legislation would apply to all Japanese salmon.

The congressional hearing in Seattle drew a mass of testimony in support of the American industry's contention that Japanese high seas operations are taking substantial quantities of Red salmon of North American origin; and that the principles embodied in the North Pacific treaty call for cessation of fishing in a broad area where stocks of different continental origin intermingle.

The North Pacific Commission meeting in Vancouver having failed to produce such a zone, opinion was evident that action should be sought thus: (1) by the Department of State calling attention of the Japanese government to the acute concern felt in the United States over destruction of Alaskan resources through failure to apply the principles of the North Pacific treaty; and (2) by act of Congress to forbid import of fish produced under conditions illegal for American nationals.

Long-standing precedent for such a law exists in the U.S. Food and Drug laws, which forbid import of food produced by methods or under conditions illegal in this country.

Tariff Commission Launches Study of Tuna Conditions

● Intensive examination of the effect of foreign imports upon the American tuna industry gets under way before the U.S. Tariff Commission in Washington just about the time this issue reaches its readers.

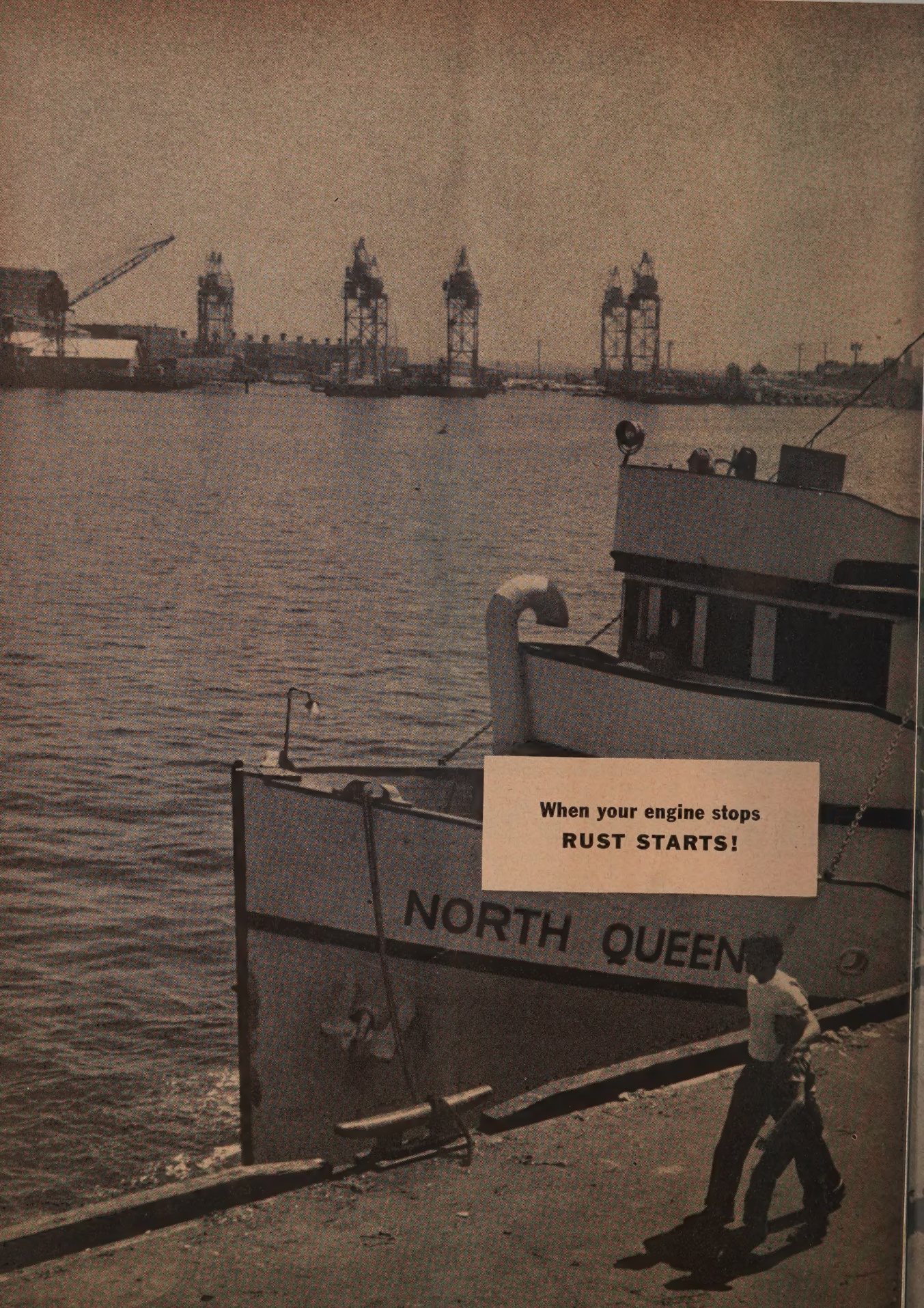
The study of the economic impact of imports on the tuna industry will attract testimony from widely distributed elements, ranging from San Diego to Eastport, Maine; and from Mississippi to the Columbia River.

The Tariff Commission is due to make report on its investigations to the Senate Finance Committee early in February. This will permit Congress to take cognizance of the finding in acting on the several measures currently before it for quota and tariff control of tuna imports, frozen and canned, in brine or in oil.

Southern Sardiners Fishing At $55; Mackerel $42.50

San Pedro's sardine fleet commenced fishing Nov. 9 after 10 weeks of idleness when boat owners and the ILWU Fishermen's Union, Local 33, agreed on $55 per ton for sardines and $42.50 for mackerel.

In addition, the agreement guarantees acceptance of 50,000 tons of sardines and 15,000 tons of mackerel at these prices if caught by Dec. 31.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As your engine cools, water forms in your cylinders to bring on your worst enemy—rust! But new, exclusive Tydol HD has an amazing additive that's impervious to water! It prevents formation of rust by leaving a protective film on cylinder walls and moving parts.

So on or off—your engine's safer with Tydol HD! And whatever fuel your engine uses—gasoline, Diesel, natural gas, propane-butane—there's a new Tydol HD Motor Oil to save you time and money.

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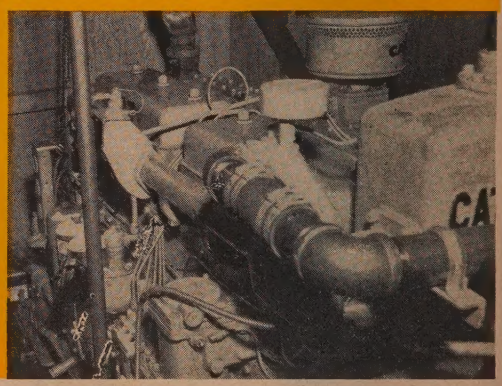

George Mathisen owns and skippers the *Nova,* a 27-ton halibut boat that fishes off the West Coast from California to Canada. The 59-foot x 15½-foot x 8-foot boat is powered by a Caterpillar D342 Engine, swinging a 48 x 38 wheel through a 3:1 reduction gear.

The *Nova* is out seven days a week during the fishing season and has brought in catches of over 60,000 pounds. Her engine is called on for 16 to 20 hours of duty a day. With 150 HP for continuous service, it gives her a speed of 10 knots.

Dependability is a built-in quality of Caterpillar Marine Diesels. They're rugged in construction, and their heavy-duty four-cycle design reduces tinkering and maintenance time. For example, you have no cylinder ports to clean and the single-orifice fuel injection valves combine with the precombustion chamber to permit use of low-cost fuels without fouling.

Cat Diesels have always been honestly rated. Now each new engine comes to you with a signed and notarized certificate showing just what power it will deliver—another Caterpillar first!

Your Caterpillar Dealer has a full line of engines with *certified power,* up to 650 HP (maximum output capacity). You can rely on him for prompt dockside service and quality Caterpillar parts. Call him today.

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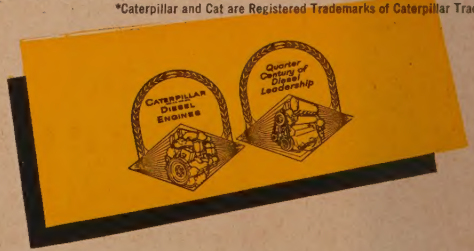


SOMETHING NEW AT SHEPHERD

Every once in a while in this industry, something really unusual comes along—something that has special interest and is certainly out of the ordinary. I think that this is one of those times, as we now have on our showroom floor a new idea in marine engine application.

Actually, there is noting really new about a turbocharger. These have been used for many years in the aircraft industry. The Caterpillar Tractor Co. began using turbochargers when the D9 tractor was introduced over two years ago and they have been available since in power plants for several different earthmoving machines.

Also, the Caterpillar D315 Marine Engine is not unfamiliar to boat owners. The really unusual part about all of this is the combination of the two. By this combination we have accomplished some things which certainly seem to me to be very desirable. We have a compact marine power plant which gives 80 continuous horsepower at 1800 RPM requiring fuel consumption of 4.88 G.P.H. This compares very favorably with an unturbocharged engine giving the same horsepower rating which requires fuel at the rate of 5.25 G.P.H. Also, this unturbocharged engine requires 21 more inches in length. The unturbocharged engine with the same gear and accessories weighs 5530 pounds against the weight of 2640 pounds for the Caterpillar D315 turbocharged marine engine.

Another incidental advantage is comparative silence which is experienced with engines using turbochargers. With all these advantages, this turbocharger must be a truly wonderful gadget. We have saved a great amount of space, we have saved fuel, we have saved weight and we have cut down on noise. This is all accomplished by using the energy in the exhaust gases to turn a turbine which is connected to an impeller in the intake system, thus much of the formerly wasted power which went up the stack in the form of heat, pressure pulsations and noise is used to raise intake manifold pressure.

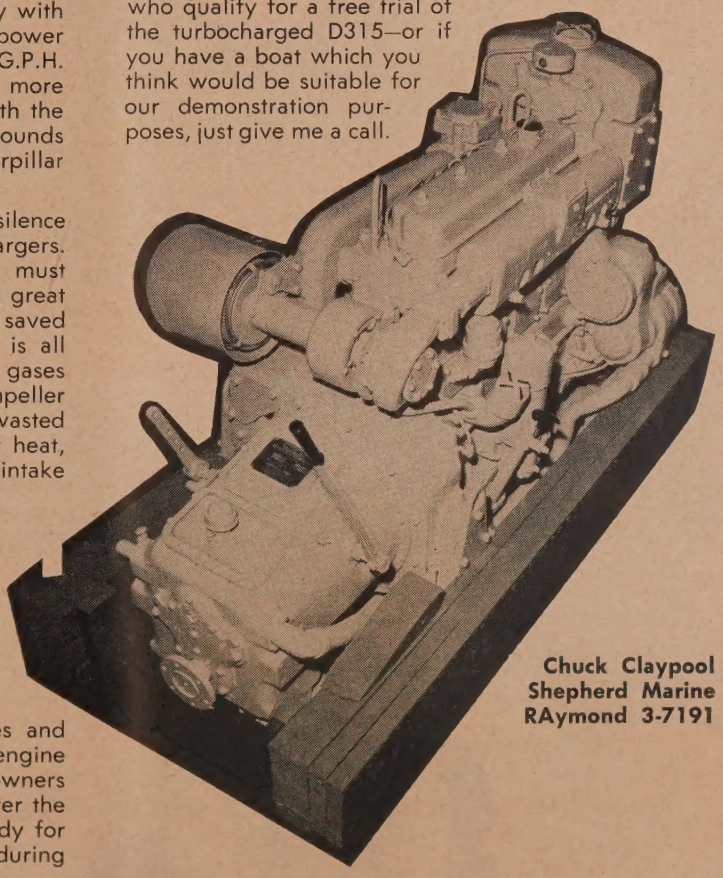
The first experimental Caterpillar Model D315 Turbo Marine Engine was installed in the Winifred II, a commercial fishing vessel out of San Pedro, owned by Mr. Frank T. Austin, in June, 1956. Since installation this revolutionary engine has given excellent service while logging in excess of 1900 trouble-free engine hours.

We are so enthusiastic about the possibilities and confident of the immediate acceptance of this engine that the first three are now being offered to boat owners on a three months' free trial basis. We will deliver the engine at dockside in the Los Angeles area, ready for installation. Our engineers will cooperate closely during installation and at the end of three months' trial period, if this engine has failed to function to your satisfaction or ours, it may be returned to us at dockside with no charge to you for the three months' use.

Now this is certainly something of special interest and out of the ordinary. If you are considering an engine for your boat, I would advise you to look into this. It is an excellent opportunity.

Remember—this is the Caterpillar D315 Marine Engine which operates with great success on the heavier, less highly refined fuels found in Mexico. It requires a minimum of service and maintenance as any Cat engine owner will testify. Here is your chance to own that fine, powerful, quiet, compact and trouble-free power plant you have always wanted.

Incidentally, Bill Shepherd is so enthused about the new turbocharged Caterpillar engines that he would like to purchase a good 45 ft. commercial fantail in which to install one of these engines for demonstration use. If you hope to be one of the first three applicants who qualify for a free trial of the turbocharged D315—or if you have a boat which you think would be suitable for our demonstration purposes, just give me a call.



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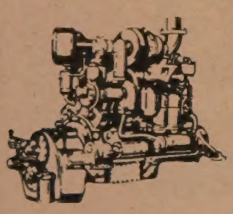
Shepherd Marine
RAymond 3-7191



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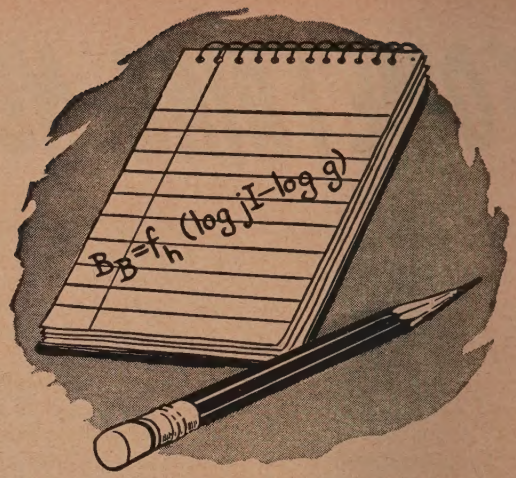
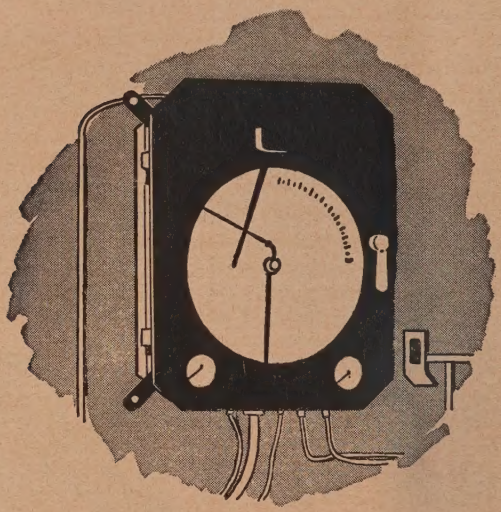
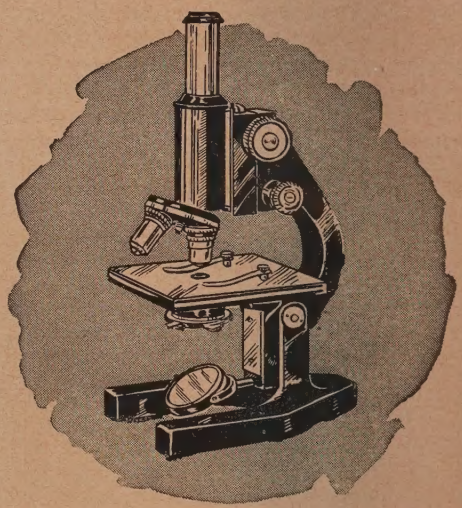
What one man have you . . .



. . . who can work out, or change, an operation or product formula?



. . . who can establish correct processes?



. . . who can identify and control spoilage bacteria?

ONE MAN would hardly be expected to do all this . . . but there is a *team* of men who can . . . and do. If you're a Canco customer, you've probably seen them in action!

For Canco has concerned itself with the processing problems of canners for more than 50 years, and during that time it has been called upon to help solve just about every type of problem you can imagine.

Canco has a name for the particular services illustrated here . . . *Prompt Help in Food-Processing Problems.*

As Canco customers know, it is only one of many such services, all of which are made possible through the teamwork of canners and Canco's many specialists in all phases of the canning business.

Among the other services which you will probably find helpful are:

1. **Advice on product formulation and packing procedures**
2. **Advice on recipes and consumer preferences**
3. **Extensive delivery facilities to meet packing schedules**
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Canco offers more and better service than any other can manufacturer.

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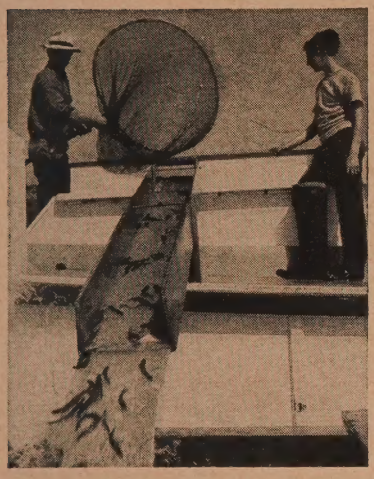
LOOK WHAT THEY'RE DOING WITH

EXTERIOR FIR PLYWOOD

a quick review of ideas and developments in marine construction and accessories

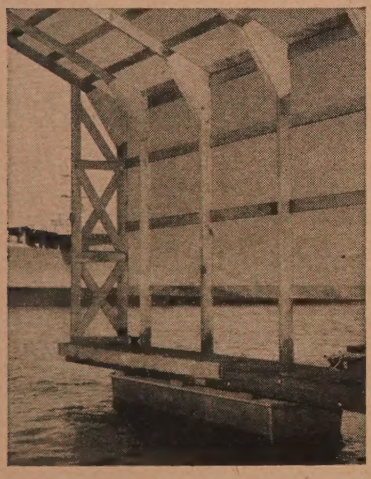


EXTERIOR fir plywood chutes speed delivery of bait from all-plywood bait-boat *Aquarius*, designed by Phillip H. Thearle for Mauricio & Sons, San Diego. Builders used EXT-DFPA for hull, superstructure, tanks, interiors . . . estimate a ⅓ saving in labor costs.

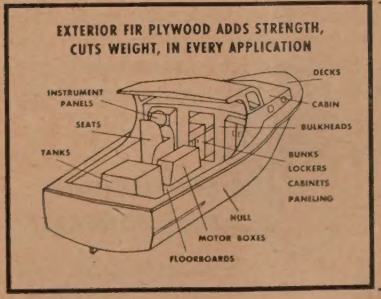
EXTERIOR-TYPE fir plywood is real wood in large, light, easy-to-work panels. Plys are cross-laminated for extra strength and rigidity... bonded for rugged durability with 100% water- and weather-proof marine glue. Exterior fir plywood is proved by thousands of marine applications —in every phase of boat construction and repair, as well as in docks, ramps, floats and storage sheds. New uses are constantly being developed. You'll find it to be your most versatile, and most economical, all-around marine construction material.

INSIST on plywood marked EXT-DFPA®; it means 100% waterproof *marine* glue. Several grades, sizes, thicknesses are available. Also, many manufacturers offer scarfed LONG panels, resin-fiber OVERLAID panels, and the new premium solid-core MARINE EXTERIOR, especially for planking, decking and other more rigorous uses.

INCREASED SPEEDS of 1 to 2½ knots are made possible by light-weight fir plywood construction of this prototype LCVP. Developed by naval architect George W. Moore of Kettenburg Boat Works, San Diego, the all-plywood craft was built at request of U. S. Navy Bureau of Ships. From 1,000 to 1,500 pounds lighter than conventional models, this plywood prototype has passed tests approximating four year's service.



EXTERIOR fir plywood top plate provides the rigidity required to make these plastic pontoons practical, cuts previously prohibitive cost. Developed by Richard L. Drues, of Northwest Design Co., for Port Yacht Basin, both of Tacoma, Washington. Roof gusset plates also are EXT-DFPA.®



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Precision-made cans are only half of Continental's story. The other half is Continental service, backed by twenty-eight years experience in making cans for West Coast fish packers. Continental service gives you individualized research and engineering assistance from Continental's West Coast laboratories and machinery service centers—to insure you a faster, more economical packing operation. West Coast research facilities work closely with Continental's new $7,000,000 Research and Development Center in Chicago, where canning experts are busy perfecting new and better cans and canning methods for fish packers. For *complete* fish can service, call Continental today.

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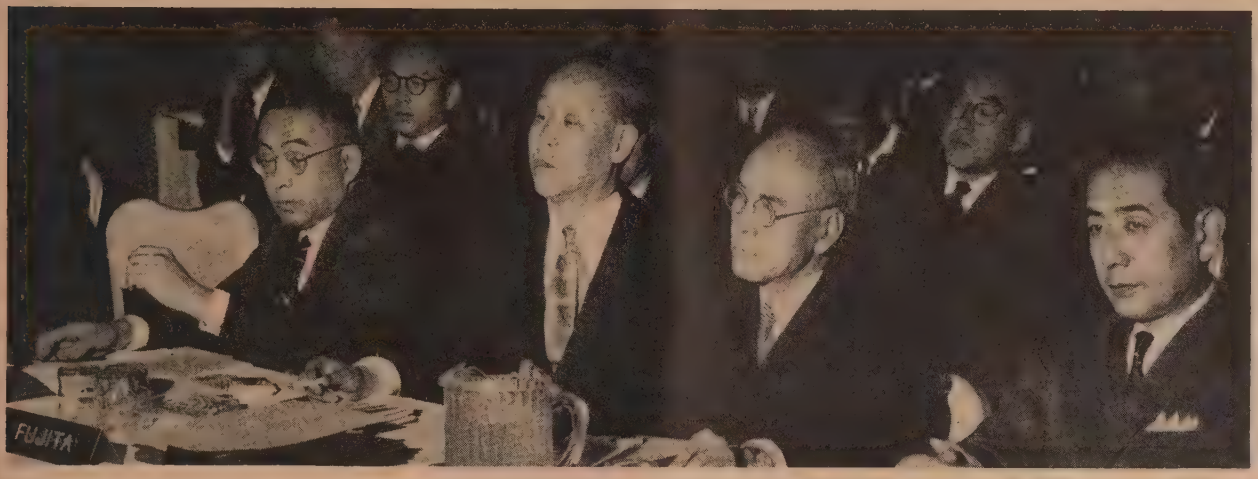


Japanese Commissioners—Foreground figures, from the left: **Koh Chiba,** Japanese Ministry of Foreign Affairs; **Iwao Fujita,** spokesman of the Japanese delegation, and commission chairman for 1957-8; **Kyuhei Suzuki,** president, Nippon Suisan, K.K.; **Kenjiro Nishimura,** Japan Fishery Agency.

Japan Rejects Cessation Zone

U. S. Request for Protection of Alaska Salmon "Not Suitable" for Discussion

• Determined efforts of the United States to bring about 1958 cessation of fishing in the area of the North Pacific where stocks of salmon of American origin intermingle in substantial proportions with those from Asia failed and fell when the Japanese section of the International North Pacific Fisheries Commission voted at Vancouver, B. C., November 8 that the proposal was "not a suitable subject for discussion".

Canada sided with the Japanese, holding that further research should be carried out before such action was undertaken.

Unanimous vote is necessary for action.

American industry representatives attending the fourth annual meeting of the commission indicated they would press independently for action by Congress and the executive branch of the United States government in an effort to influence voluntary reduction in high seas fishing effort by the Japanese on salmon stocks native to Alaskan streams.

Unless substantial reduction can be secured in the high seas exploitation of these stocks, it may be necessary to close the Bristol Bay fishery entirely in 1958, it was stated plainly at the meeting by highest officials of the U.S. Bureau of Commercial Fisheries, responsible for conservation of the Alaska salmon resource.

Some Ground Gained

• United States gained a little ground in its drive for action under the treaty provision which required the North Pacific Fisheries Commission to establish a "line or lines" which most "equitably" divide the continental stocks of salmon in the sea.

This was one of the two primary objectives of the American Section: to set-up a special committee charged with evaluating scientific research findings and applying them in such a way as "most equitably" to divide Asian and American stocks of salmon in waters where they are found to intermingle on the high seas.

This is one of the two primary responsibilities laid on the commission by the treaty which creates it.

In its demand for establishment of such a special committee to undertake

Canadian Commissioners—Roger T. Hager is seated on the left, with **James Cameron** in the middle and **John M. Buchanan** on the right. **George R. Clark,** the fourth member of the Canadian Section, was presiding as commission chairman. In the rear, between Mr. Hager and Mr. Cameron, may be seen **Dr. A. W. H. Needler,** biological and research spokesman for Canada.

this problem the United States had the support of Canada, but Japan resisted for 48 hours, finally accepting the proposal, but with the reservation that details of the committee's activities be not discussed until the next annual meeting of the commission in Tokyo Nov. 4, 1958.

In other words, the committee was barred from even beginning work on its assignment for a full year.

United States' Position

● United States' intention to seek protection for Alaska Red salmon stocks from the Japanese high seas fishery was announced to the commission at its opening session by Milton E. Brooding, American Section chairman, in these words:

"The problem of determining the line or lines which most equitably divide salmon originating from the two sides of the Pacific Ocean will not be an easy one to solve.

"In order to proceed expeditiously, therefore, we propose (1) that an ad hoc committee be appointed immediately to undertake a suitable study of the problem and report its findings and recommendations at the earliest possible date. The United States Commissioners further recognize that this ad hoc committee may not be able to complete its assignment in time for action by the Commission prior to the next fishing season.

"In view of this situation we consider it essential that, pending action changing the provisional lines in accordance with the provisions of the Convention, and in order to carry out the spirit and intent of the Convention, some interim steps should be taken by the Parties to the Convention without delay. We are convinced that there are a number of measures which can contribute toward achieving the desired objective.

George R. Clark, chairman, presiding at the International North Pacific Fisheries Commission meeting at Vancouver. He was succeeded for 1957-8 by **Iwao Fujita** of Japan.

"We propose therefore, (2) pending an appropriate change in the provisional lines, that the Commission shall recommend to the respective Parties that the adverse effect of fishing in the area of intermingling be minimized by cessation of fishing in areas where, or at times when, a substantial proportion of salmon of North American origin are found. We will be prepared to discuss this proposal at later meetings of the Commission.

"Salmon stocks upon which the majority of the people along great sections of our Pacific Coast depend for a livelihood, appear to be suffering increasingly from heavy mortality at sea, to the extent that the very future of the fishery is threatened. We feel it is imperative that this matter in which the Commission has a heavy responsibility be given immediate attention."

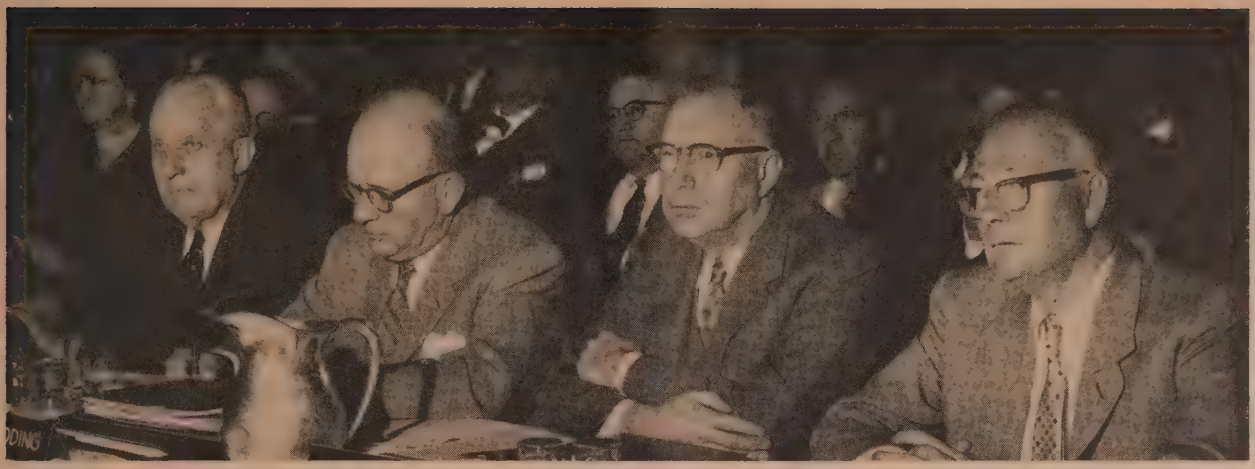
1957 No-Fishing Proposal

● Following acceptance of the special committee — barred from effective activity for at least a year—Mr. Brooding launched the effort to provide a zone of cessation of fishing which would protect American stocks on a temporary basis until the committee could determine "line or lines" of "equitable" division. This he did in these words:

"As a result of intensive research, which is continuing on an increased scale, our fishermen have been severely limited by conservation regulations. In 1957 fishermen in Bristol Bay were allowed to fish an average of about 2¼ days per week during the peak of the fishery, which occurs from June 25 to July 25. In 1957 these fishermen took only 6 million Red salmon from a cycle which was expected to produce a very much higher yield.

"Samples of Red salmon taken in the area of the western Aleutians and north of the Aleutians west of 175° West Longitude were predominantly fish of North American origin, most likely from Bristol Bay. Reports of high seas fishing operations show that particularly heavy concentrations of Japanese fishing occurred in this area in 1957, with reported catches of at least 5 to 10 million Red salmon.

"We have reason to expect that the 1958 Red salmon cycle in Bristol Bay will be considerably smaller than that of 1957. If the Japanese high seas fishing is on the same scale as in 1957, and if it takes as many Red salmon, the United States government



American Commissioners—From the left, **Ross L. Leffler,** Assistant Secretary of the Interior; **M. E. Brooding,** American Section chairman; **Edward W. Allen,** Seattle; **J. H. Clawson,** Anchorage, Alaska. Visible to the left of Mr. Leffler is **Miss Isla Davies,** U. S. Department of State. To the left of Mr. Allen is **Harold E. Lokken,** manager, Fishing Vessel Owners Association, an advisor; and to the right of Mr. Allen is seen **Dr. A. L. Tester,** new chief of biological research, U. S. Bureau of Commercial Fisheries.

will be faced with two alternatives:

"(1) Close our own fishery entirely and deprive our Bristol Bay fishermen of a season altogether in order to achieve a reasonable escapement; or

"(2) Allow our fishermen to fish seven days a week, as the Japanese do, and destroy this cycle, In either case the United States government is faced with a difficult decision.

"In view of the urgency and gravity of the situation, we consider it essential to place the problem before the commission at this session.

"To sum up:

"There is general agreement that there is intermingling on the high seas.

"Evidence of research investigations presented to the Biology and Research Committee last week shows that there is intermingling of Asian and North American stocks of Red salmon at least as far west as 170° East Longitude.

"We therefore propose establishment in advance of the 1958 season of a zone in which there shall be cessation of all fishing in waters where a substantial proportion of salmon of North American origin are found.

"Without such protection it is not possible for the United States to meet its obligations through sound management practices to perpetuate the Alaska salmon fisheries on a sustained yield basis."

Intermingling Accepted

● It is significant that there was general agreement that research had demonstrated a broad area in the sea where salmon of Asian and American origin intermingle. This fact was thrice accepted formally by Iwao Fujita, spokesman for the Japanese Section. Determination of whether or not such an area of intermingling exists is one of the specific duties with which the commission is charged.

Moreover, the Committee on Biology and Research, consisting of a commissioner and two scientists from each nation, in its formal report, accepted by the commission said:

"It has been established that Sockeye, Pink and Chum salmon of Asiatic and North American origin intermingle in a broad area in the North Pacific and the Bering Sea, apparently extending over at least 30 degrees of longitude between 170° East and 160° West".

The committee went on to say: "Information on the proportions of salmon of Asiatic and North American origin at various times and places within this area of intermingling is being obtained".

In the 1958 program for research, which will be carried out at least as intensively as in recent years, this determinations of proportions of the continental stocks within the area of intermingling is a prime objective.

Publication Veto Voted

● "Our problems become more concrete and difficult", Mr. Fujita, newly elected chairman of the Commission for 1957-8, said in his closing remarks following his election.

Although the two-point American program with respect to fishing in the area of intermingling produced the sharpest division in meetings of the commission itself, there were other instances of tightening tactics.

A case in point involved policy with respect to publication by the commission of "the results of scientific investigations carried out under its research programs". Here the Japanese won a signal victory in a provision which establishes a trio of "scientific referees" whose unanimous approval is required for publication of research papers.

In accepting this provision, the commission gave to a single scientist —not even a member of the commission—veto over all the commission's scientific publications.

Observers felt the effect of this would be that research reports of significant or sensitive character would probably have to be published by the national sections themselves, and thus without commission sanction.

● Mr. Fujita was elected chairman of the commission for 1957-8, with Edward W. Allen of the United States vice chairman and George R. Clark of Canada secretary. Standing committee chairmen for 1957-8 will be: Biology and Research, James Cameron of Canada; Finance and Administration, Ross L. Leffler of the United States.

Research in 1958

● Research programmed for 1958 is expected to follow approximately the same pattern of intensity and expenditure as in 1957, with some shifts in emphasis to concentrate on those lines of study giving most promise of results in distinguishing between continental stocks.

To this end there will be special effort to secure increased numbers of samples from Asian streams. Work on Silver and King salmon will be abandoned in order to permit closer concentration on the three species principally involved in the high seas fishery.

Alaska Delegation, including an honorary member from Washington, D. C. From the left, **Robert Kallenberg,** Dillingham, chairman of the advisory committee to the American Section of the International North Pacific Fisheries Commission; **Clarence L. Anderson,** Alaska territorial fisheries director; **Miss Isla Davies,** U. S. Department of State; **John Smith,** Metlakatla, a new member of the advisory committee.

All racial studies will seek to determine more closely the quantitative distribution of continental groups in the sea between 165° East and 160° West.

● Tagging studies, conducted principally by the United States, will be "pushed further west to determine if the rate of return from the American fishery falls off sharply, thus indicating the presence of Asian fish. (This is necessary because of the difficulty of securing adequate tag returns from the Siberian streams or coastal fishery.)

A second shift in the tagging pattern will be to extend tagging north and south from the western head of operation, producing a "T-formation" which may indicate specific areas frequented by different races of American fish.

It is anticipated in particular that tagging in 1957 will be carried on extensively in waters westerly of 170° East, more than 15 degrees beyond the provisional Abstention Line.

Tagging at the base of the Aleutian Chain will be continued to test the rate of recovery against that from operations further west. This is necessary because of the uncertainty of complete returns from the Asian mainland and seeks to permit the American tagging research to stand alone.

● Oceanographic studies seeking particularly to provide data on ocean conditions in the area of accepted intermingling astride the International Date Line and from Latitude 47 North to 53 North was recommended by the oceanographic group.

● King crab studies in 1958 will be a projection of those carried out this year and will seek in particular:

1. Migration studies by means of tagging.

2. Seasonal variations in the quantity and quality of meat.

3. Studies of damage done by the various forms of fishing gear to female, undersized and otherwise unusable crabs.

4. Effect of water chemistry, temperature, current and plankton conditions on abundance and availability.

5. Early life history of King crabs.

6. Effect of fishing on the stocks, and estimate of number of mature crabs.

Research Appraised

● Exceptional productivity of the research program was recognized by those who assessed the results of the 1957 studies. All lines of racial studies tended to point not only to the area of intermingling but to show the existence of a substantial proportion of salmon of American origin in the population west beyond 170° East Longitude. This was true of the Canadian as well as the American investigation.

All Red salmon tag returns, as has been emphasized before, have come either (1) from Alaskan waters or (2) from the Japanese operations in the immediate vicinity of the area of tagging. On the other hand, no Pink tags have been returned except from waters to the westward of the point of tagging. This would indicate that Asian Pinks dominate in the same water where the Reds seem to be primarily from the Alaskan mainland. Chums, however, seem to show a random pattern, with returns from both continental areas of this species tagged in the vicinity of the Japanese high seas operations.

Seattle and San Pedro Get U. S. Fish Offices

● Establishment in Seattle of the Pacific regional office of the U. S. Bureau of Commercial Fisheries, and in San Pedro of a "program office," are the principal features for the Pacific Coast in the divorcement of regional offices of Commercial Fisheries from those of the Fish and Wildlife Service's Bureau of Sport Fisheries and Wildlife, announced late in November.

Samuel J. Hutchinson becomes the regional director at Seattle. Man to be in charge at San Pedro was not announced.

The program office for Southern California will be concerned with direction of the Bureau's work in the fisheries of that area, particularly sardines and tuna, which are regarded as presenting distinct problems from those of the more northerly region.

As is the case with the Bureau's program office in Hawaii, the San Pedro office will report direct to Donald L. McKernan, Bureau director, in Washington, and will not be responsible to the regional office in Seattle.

● Alaska regional office of the Bureau will remain in Juneau, where the sport fish and wildlife bureau will also have its regional headquarters.

S. J. Hutchinson, newly appointed Pacific Coast regional director for the U. S. Bureau of Commercial Fisheries, located at Seattle.

John Gharrett, who has been serving as acting administrator of Alaska commercial fisheries for some time, now emerges as regional director for the Territory.

● A regional shift of some interest to the Alaska fisheries makes Seton H. Thompson, who for many years was chief of the Alaska Branch of the Fish and Wildlife Service, regional director for the South Atlantic and Gulf area with headquarters in St. Petersburg, Fla. Although not included in the announcement, appointment of Richard T. Whiteleather as Mr. Thompson's assistant is expected.

Mary Barbara

10th Clipper Of Current NASSCO Series

● Tenth 127′ steel tuna clipper launched by National Steel & Shipbuilding Co., San Diego, during a period generally considered as slack in tuna vessel building, took to the water in November.

She is the *Mary Barbara,* named for Mrs. Mary Barbara Smith, who christened the vessel, and who is the mother of C. Arnholt Smith, president of NASSCO. The launching partook of the nature of a "family party" generally, and served as an occasion for Mr. Smith and Milton F. Fillius, Jr., vice president and general manager, to tell the company's 750 employes many of the details of the firm's history, growth, policy and prospects. Included in the substantial backlog of vessels is an 11th 127-footer, the last of the present series.

● *Mary Barbara* will fish for Breast-O-Chicken, Inc., with George Zuloff as skipper. He expected to get her to sea on her maiden trip by mid-December.

The vessel's hull, which is all steel, fabricated by electric welding, features the longitudinal framing system and efficient hull form which National Steel has proven in extensive model test studies and found effective in theory and operation. Length is 127′ overall; beam, moulded, 30′6″; depth, moulded, 14′6″ m.

Fish carrying capacity is 340 tons, with the tuna refrigerated by a system of four 6 by 6″ compressors, each driven by a 30-hp. motor.

Main engine is a 6-cylinder opposed-piston Fairbanks-Morse diesel, developing 960 hp. at 720 rpm., which is reduced 3:1 at the wheel. Auxiliary diesels are Murphys, 6-cylinder, developing 191 hp. for continuous service at 1,200 rpm. They are connected to 125-kw. generators.

Automatic and manual steering is provided by a Sperry magnetic compass pilot, working through a National Steel worm gear unit to actuate a rudder featuring one of the recent N. A. C. A. air foil shapes.

Southern California Tuna Receipts

Cumulative totals for 1957 to Nov. 9 for all deliveries from all sources. Data in tons. Previous years shown to nearest comparable dates. (Data from U. S. Market News Service.)

	Albacore	Bluefin	Skipjack	Yellowfin	Bonito & Yellowtail	Total
San Pedro	21,041	9,031	27,521	52,164	36	*109,793
San Diego	11,534	694	21,087	27,927	14	†61,256
Total 1957 to Nov. 9	32,575	9,725	48,608	80,091	50	171,049
Total 1956	22,174	6,222	56,545	89,457	49	174,527
Total 1955	30,106	5,552	42,971	58,309	17	137,786

*Includes 36,000 tons of imported frozen tuna: 13,417 tons Albacore, 8,253 tons Skipjack, 14,285 tons Yellowfin, 45 tons unspecified.

†Includes 3,636 tons of imported frozen tuna: 756 tons Albacore, 175 tons Bluefin, 1,087 tons Skipjack, 1,223 tons Yellowfin, 395 tons unspecified.

Oregon Trims Tax To Aid Shrimping

With a shrimp industry blocked by its $15 per ton tax, the Oregon legislature in special session in November passed a law dropping the tax to $2 per ton. This still leaves the Oregon operator under a slight handicap in competing with Washington shrimpers, who pay $1.60 per ton.

Sprules for Ozere On Halibut Commission

January meeting of the International Pacific Halibut Commission will see W. M. Sprules of the Canadian ministry of fisheries replacing S. V. Ozere, who has served for a number of years in the Canadian section. Mr. Sprules attended the meetings of the International North Pacific Fisheries Commission meeting in Portland.

There was some speculation also as to whether or not a change might be expected in the American section of the halibut commission as result of Seton H. Thompson of the Bureau of Commercial Fisheries moving from Washington to St. Petersburg, Fla., where he will be regional director.

Blunt Facts from Mid-Ocean

U.S. Law-of-the-Sea Position

Promotion of Canned Salmon

Technology of Fish Canning

Prospects for 1958 Fishing

● Top management of the American salmon industry — owners, presidents, managers, superintendents, purchasing agents, sales and traffic managers — to a number above 350 took a long look at the affairs of their business in Seattle November 11 at the 44th annual convention of the Association of Pacific Fisheries.

Attention focused sharply on the problem of drain and pressure on American salmon resources as result of Japanese high seas operations in the North Pacific area where substantial proportions of salmon of American origin are found in the stocks exploited by the Japanese westward of the Abstention Line of 175° West Longitude.

Two speakers dealt directly with this matter. M. E. Brooding, chairman of the American Section of the International North Pacific Fisheries Commission, reported on the 1957 session at Vancouver, covering much the same ground as the article beginning on Page 9.

Milton Brooding reports on Japanese high seas fishing and U. S. insistence on a zone of cessation west of present abstention line.

W. C. Arnold, managing director of the Alaska Salmon Industry, Inc., and a member of the American Section's advisory committee, gave an interpretation of the results of the meeting. His remarks in full accompany this report.

Sacrifices Brought to Naught

● Sacrifices of American fishermen on Bristol Bay under stringent controls designed to rebuild the Red salmon runs have been brought to naught by fishing operations of "another country" on the high seas.

"In 1957 scientific evidence shows a major part of the Bristol Bay Red salmon was taken on the high seas by the vessels of another nation."

These are some of the things which Donald L. McKernan, director, U. S. Bureau of Commercial Fisheries, told the Association of Pacific Fisheries at its 44th annual meeting in Seattle November 11.

He mentioned no "other nation" by name, but that he meant Japan was plainly evident.

The director went on:

"We have made management gains that produced runs which have been of little benefit to Alaska fishermen, who must fish under regulations which impose seasonal limitations of uneconomic character in an effort to secure adequate escapement. At the same time our fishermen must compete with the 7-days-a-week, no boat size limit, no gear size restriction, high seas fishery working the same stocks.

"We just can't economically match such competition, which sells its product in our own national market.

"I have no panacea for this situation, but some things are evident. Among them:

"1. We and our competitors must share the burden of conservation.

"2. The *spirit* of conservation must be observed.

"3. We can't continue to harvest too few fish with too much gear in too little time and for too many canneries.

"4. We need more research, more knowledge. *There can't be knowledge enough.*"

Herald A. O'Neill, left, secretary, and **A. W. Brindle,** newly elected president of the Association of Pacific Fisheries, listen attentively during the association's 44th annual convention at Seattle Nov. 11.

American Advisors in informal discussion at a meeting of the American Section during the International North Pacific Fisheries Commission meeting, Vancouver, B. C. From the left: **Milton C. James,** director, Pacific Marine Fisheries Commission; **George Johansen** (behind), secretary, Alaska Fishermen's Union; **Milo Moore,** Washington state director of fisheries; **Dr. W. F. Thompson,** director, Fisheries Research Institute; **John Smith,** Metlakatla, Alaska; **Clarence L. Anderson,** director, Alaska Territorial Department of Fisheries; **H. E. Lokken,** manager, Fishing Vessel Owners Association; **Lowell Wakefield,** Wakefield's Deep Sea Trawlers, Inc.; **W. C. Arnold** (in rear), managing director, Alaska Salmon Industry, Inc. **Robert Kallenberg,** Dillingham, Alaska, chairman of the advisory committee, is obscured behind Mr. Smith.

All-American Position On Law of the Sea

● Essential character of all-American industry support for the "American position" on the Law-of-the-Sea conference to be held in Geneva next spring was laid before the American salmon industry at its 44th annual convention in Seattle Nov. 11 by W. C. Arnold, managing director of the Alaska Salmon Industry, a member of the committee which has prepared the position embodying the thinking of the fisheries of the United States.

The position, in substance, demands unequivocably recognition of the Principle of Abstention for developed fisheries; and supports in all respects the traditional American doctrine of the 3-mile limit and the narrow territorial seas.

Beside advancing this position, the United States fishing industry is insistent that American acceptance of the Geneva conference recommendations, which may be expected actually to become international law, be made subject to approval by Congress; and not to United Nations action binding upon all members of the U. N.

Technology

● Suggestions for practical technological controls in salmon canning made to the Association of Pacific Fisheries Convention by Walter Yonker, director of the Northwest Branch of the National Canners Association, included a word of warning, along with high approval, of brine chilling as a means of protecting fish quality prior to canning.

"Use of chill brine in canning is highly commendable, and has done much to improve canned salmon quality, but it is not a universal cure-all. It won't keep fish fresh forever, and it won't make 'em any fresher than they were when they went into the chiller.

Walter Yonker
NCA branch chief reports on quality of '57 pack.

"It is an advance and an improvement, but it must be used right along with the old standards of prompt, careful handling and sanitation," Mr. Yonker said.

He warned also of dangers inherent in the use of disinfectants with high and persistent odors which might be imparted to the flavor of the product canned on equipment or in areas where the disinfectants had been employed.

Mr. Yonker explained inaccuracies in some 1957 reports of short weight contents of cans as due in fact to variations in the tare weights of the cans themselves.

Edward Cunningham Honored

● One of the happiest aspects of the 44th annual salmon convention, or of any of its predecessors, was the presentation of an illumined scroll to Edward Cunningham, president of Pacific Marine Supply Co., in appreciation of his 60 years as a supplier to the salmon industry.

The wording of the tribute to Mr. Cunningham is reproduced in full accompanying this article.

Sockeye-Pink Prospect

● There is a glowing prospect for intermediate range up-building of the Pink salmon resource of Puget Sound and the Strait of Georgia based on the run to the Fraser River, *IF*—

The United States and Canada can work-out an agreement for a sound program of utilizing the power resources of the upper Columbia River for the benefit of the two countries without destroying the potential of the Fraser as a source of salmon.

This is what Loyd A. Royal, director of investigations of the Interna-

Charles Alhadeff
reports salmon association in sound condition financially.

tional Pacific Salmon Fisheries Commission, told the Association of Pacific Fisheries November 11, just after the close of the commission's first season of responsibility for the Pink salmon resource, in addition to its older Sockeye charge.

"Columbia River diversion to the Fraser, or other power-development works which would dam that stream, are the only barrier to a rich future in salmon for American and Canadian boundary waters.

"International regulation of the fish-

Edward Cunningham, right, president of Pacific Marine Supply Co., listens thoughtfully as **E. E. Murray,** retiring president of the Association of Pacific Fisheries, reads the association's tribute to Mr. Cunningham's 60 years of service to the salmon industry as a supplier and honored friend.

ery is here and functioning. In the first year of responsibility for Pinks, with a dismal run, we got a reasonable escapement — at the cost of a pack, which was one of the poorest ever in the odd-year."

As to Sockeyes, Mr. Royal said without equivocation or hedge: "Signs for the Sockeye run in 1958 give us grounds for optimism."

New Officers

● A. W. Brindle, president of Wards Cove Packing Co., was elected president of the Association of Pacific Fisheries, succeeding E. E. Murray, who served two terms.

Four vice presidents were elected, in order: A. R. Barthold, Alaska Packers Association; T. F. Sandoz, Columbia River Packers Association; S. M. Rosenberg, New England Fish Co.; S. G. Tarrant, Pacific American Fisheries, Inc. Herald A. O'Neill was re-elected executive secretary.

Trustees of the association, in addition to the officers, are: G. P. Halferty, G. P. Halferty & Co.; Leo T. Kreielsheimer, Kadiak Fisheries Co.; John N. Plancich, Fishermen's Packing Corporation; Lawrence Calvert, San Juan Fishing & Packing Co.; H. B. Friele, Nakat Packing Corporation; Vance F. Sutter, Fidalgo Island Packing Co.; K. C. Hardwicke, Libby, McNeill & Libby; New Bez, P. E. Harris Co.; C. J. Sebastian, Sebastian-Stuart Fish Co.; August Buschmann; Charles D. Alhadeff, Whiz Fish Products Co.; William S. Jensen, Washington Fish & Oyster Co.; J. E. Brennan, Haines Packing Co.

Mr. Alhadeff, chairman of the budget and finance committee, told the convention that the association and the Northwest Branch of the National Canners Association were in sound financial condition; and that the American Can Co. had announced through William Flynn, northwest sales manager, that it was again making a $10,000 gift to support of the N. C. A. Northwest Branch Laboratory. R. C. Stolk, Pacific vice president of Canco, and Alexander Black, regional sales manager, attended the convention from San Francisco.

Entertainment and Prizes

● Following traditions of many years, the Association of Pacific Fisheries was guest at luncheon of the Pacific Marine Supply Co. and Associates, including The Linen Thread Co., Plymouth Cordage Co. and E. H. Edwards Co.

Hosts at the convention dinner were the American Can Co., Continental Can Co. and Alaska Steamship Co.

Assisting Edward Cunningham, president, and Robert D. Ladd, vice president and manager of Pacific Marine Supply Co., as hosts at the luncheon were several associates who had come far to attend the convention. These included H. E. Kegelman, president of The Linen Thread Co., Ted Dahlstrom, its sales manager; John E. Richardson, Pacific Coast manager, and his assistant, Richard K. Finn; Bartlett Bradley, sales manager, and A. L. Bergman, Plymouth Cordage Co.

Convention prizes were given and won by: E. H. Edwards Co., *William Calvert;* Fibreboard Paper Products Co., *M. E. Brooding;* The Linen Thread Co., *J. B. Strom;* National Bank of Commerce, *Cliff V. Williams;* Nordby Supply Co., *John Wilkinson;* Pacific Marine Supply Co., *S. G. Tarrant;* Plymouth Cordage Co., *Lee Higgersen;* Seattle-First National Bank, *James Doran;* Seattle Marine & Fishing Supply Co., *E. E. Murray;* Standard Oil Co., *Fred McGill;* Tubbs Cordage Co., *Lawrence Freeburn.*

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Here is a merchant whose richest profit is in the grateful respect of the fishing industry he has supplied and served for 60 years.

Attest:
Herald O'Neill,
Secretary

Association of Pacific Fisheries
E. E. Murray
President

Presented at the 44th annual convention of American salmon canners, Seattle, Wash., Nov. 11, 1957

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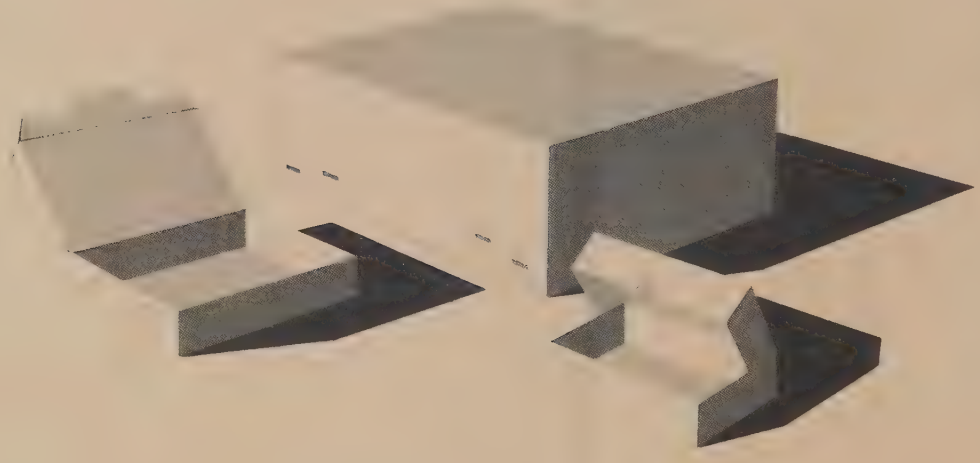

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PACIFIC FISHERMAN'S NEWS

DECEMBER 1957

Winter Trawl Closure Possible This Season

● Strong current of opinion running in favor of a mid-winter closure of all trawl fishing in Oregon and Washington, with possible concurrence by Canada, was manifest at the Pacific Marine Fisheries Commission meeting in Portland in November.

The commission took no formal action, other than to refer the matter to the two states directly involved for study and possible action.

● No time was lost in carrying the matter further and Milo Moore, Washington director, and John Hodges, acting Oregon director, were in consultation on the matter before Thanksgiving; between themselves and with the industry. It appeared altogether probable that hearings would be held early in December with the *possibility that a two-months closure might be invoked before the end of the year.*

Conservation of the petrale sole through winter protection of the spawning populations assembled in the coastal "deeps" was the primary consideration involved in connection with the closure. Limiting the closure to this species—as is done now, with a tolerance in landings — was discussed, but it was felt generally that this method had not been wholly effective as a conservation measure, and had been difficulty of enforcement.

Industry opinion seemed to favor general closure of trawl fishing, with these points of advocacy: (1) other species taken by trawls at that time are also ready to spawn; (2) bottomfish generally are in poor condition during the late winter; (3) fishing is hazardous and expensive; (4) the market would be firmed by a period of no landings.

Other actions taken by the Tri-State Commission included:

Sablefish — Recommended abolishment of the present November-December closed season on sablefish, which would become almost automatically effective with the proposed trawl closure. The halibut fleet's long-standing plea to raise the minimum size limit on sable was presented by Harold E. Lokken, manager of the Fishing Vessel Owners Association, but defeated.

Albacore — Extended discussion of the needs of this fishery led to a decision to request the federal government to continue and extend its studies of this tuna.

Chinook Trolling — Defeated the strong plea entered by Bert Johnston, speaking for the Fishermen's Cooperative Association, Seattle, to advance the season for Chinook salmon troll fishing by one month. *The season in 1958 will again open April 15.*

Silver Trolling—Proposal to establish a 22" minimum for Silver salmon was approved; but obviously there will be difficulties in the way of bringing

(*Continued on page* 21)

Part-Time Netters Draw Sharp Fire On Cook Inlet

● Part-time fishermen who use outboard motors and trailer-carried skiffs to fish drift gillnets during the two-days-a-week Cook Inlet commercial fishing season became a real factor in that fishery in 1957 and helped to run-up the rate of fishing intensity in spite of the poor season.

This was brought out at the Bureau of Commercial Fishery hearings on proposed regulations for Cook Inlet in 1958, held in Seattle in November.

This part-time fishing by means of outboard-driven skiffs came under fire of George Johnson, secretary of the Alaska Fishermen's Union, who argued that the full-time fishermen, who have borne the burden of regulation and curtailment in an effort to maintain the Cook Inlet resource, should have first consideration and should be protected from the rise of new forms of exploitation.

● The Bureau does not propose any substantial changes in the Cook Inlet regulations for 1958, but John Gharrett, acting fishery administrator for Alaska, said the part-time fishery was under scrutiny.

Dr. William Royce, deputy administrator for research, told the regulations hearing of the work being done in Central Alaska under contract with the Fisheries Research Institute in the study of sealion and seal predation, and that test control measures were being planned.

Sea Bass Trolling Productive at Monterey

Monterey trollers have done fairly well of recent months fishing for sea bass, right in Monterey Bay.

The fish run from 12 to over 35-lbs. Price to the fishermen started at 25c-lb. and dropped to 12c. Sea bass, while not a rarity so far north, have not been caught around Monterey Bay in quantity for a number of years. Warmer water is thought to have brought them so far north.

Hunter & Foland Add Facilities at Plant

The Fields Landing, Calif., plant of Hunter & Foland Fish Co., has been improved with the addition of a new lunch room and shower room.

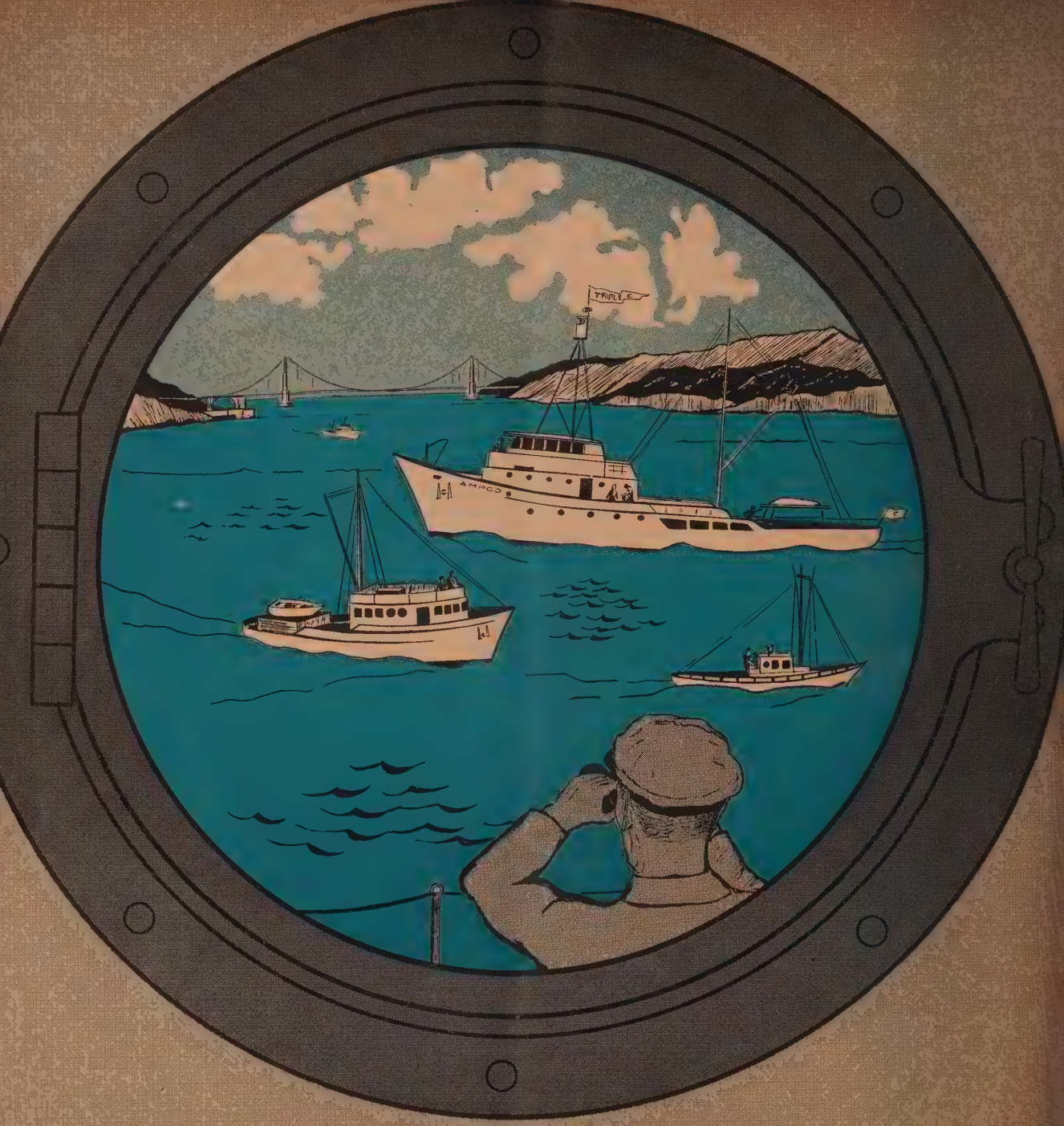
Noyo Harbor Deepened

Noyo Harbor, Fort Bragg, Calif., is being dredged to 10' below mean low water by the Palmberg Construction Co., Astoria, Ore.

Shrimp and Albacore Good in North California

Angelo Intersimone, manager, Tom Lazio Fish Co., Eureka, reports that the quota on shrimp for the Eureka-Crescent City area was not reached this season, but nevertheless was considered successful with about 500,000 lbs. landed in the area.

Albacore landings in Eureka to the middle of October were about 2,000,000-lbs., with about 75% of this going to Pacific Northwest canneries.



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Winter Trawl Closure

(*Continued from page* 19)

it into actual effect. The same was true of suggestions for uniform openings of trolling on the basis of actual fishing rather than landing of the fish. Necessity for legislative action in some cases will delay attainment of this objective.

Uniform Seasons — Uniform openings for fishing seasons were advocated in a number of fisheries, particularly for ocean trolling and crabbing, and in cases of adjacent fisheries, as in the case of the crab operations of Northern California and Southern Oregon.

The arguments for uniformity took two courses: for uniform openings of identical fisheries in adjacent areas; and for uniform seasons applicable to all gear engaged in a single fishery within the jurisdiction of a state.

Oyster Inspection — Establishment between the three states of a uniform program of inspection of seed oysters for importation, but one which would continue to be administered by the individual states in cooperation with the private importers.

● The three state sections at the Portland meeting were:

California—Richard S. Croker, Eugene D. Bennett, Vince Thomas.

Oregon — Harold T. Johnson, Charles W. Mahaffy, Omar C. Palmer, newly appointed members of the Oregon Fish Commission.

Washington—Milo Moore, state director of fisheries.

Close Accord is Reached On 1958 Herring Program

● Herring management on a basis which would take a fixed amount of fish from known populations without wiping out any stocks commanded general agreement of spokesmen for the Southeast Alaska salmon trollers and herring operators at the Bureau of Commercial Fisheries Seattle hearing in mid-November on 1958 fishing regulations.

Lawrence McCartney, speaking for the area herring operators, won frank support from Mrs. Myrth Sarvela of Sitka, who for many years has expressed the point of view of the salmon trollers whose operations center in the vicinity of the principal herring fishing areas.

Mr. McCartney made two specific recommendations for quotas in addition to those already proposed by the Bureau. The operator's suggestions called for:

1. A quota of 10,000 tons for the coast from Whale Bay to Cape Omaney;

2. Quota of 5,000 tons for the inner portion of the Icy Strait area.

He contended that such an arrangement would encourage fishermen to test the Icy Strait population and would encourage use of a population found at the end of the 1957 season.

Mrs. Sarvela took the position that operations under such quotas, which would protect the populations from over-exploitation, were in line with sound conservation of the herring resource.

● Bureau proposals contemplated a quota of 22,500 tons throughout the range of the existing fishery, with a maximum limit of 6,250 tons to be taken from the Sitka area. There would be an additional quota of 10,000 for the extreme south limit of the territory, where fishing would open early, June 1.

Research indicates that the 1958 catch will be on the order of 1957, or perhaps somewhat less, with 5-year-old fish the principal component of the total.

Cook Inlet's Latent Shrimp Industry Seeks Trawling OK

● Shrimp possibilities of lower Cook Inlet will require an Alaska fishery regulation sanctioning trawling for shrimp in waters also inhabited by King crab if the latent shrimp fishery is to attain industrial status.

So W. A. Ritter, president of the Alaska Fresh Co. of Kachemak Bay told John Gharrett, acting Alaska administrator for the Bureau of Commercial Fisheries in Seattle in November.

Present regulations prohibit taking King crabs in Cook Inlet by means of trawls. How to permit shrimp trawling while restricting crab trawling is the problem. Mr. Gharrett promised to look into it.

He also gave indication that the Bureau is considering seriously acceding to the proposal that the Cook Inlet King crab closure for protection of soft-shelled crabs be put on a basis of crab condition rather than a calendar period. This is the method followed in administering the Kodiak Island King crab fishery.

Howard Wakefield of Wakefield Fisheries and Wakefield's Deep Sea Trawlers, Inc., told the Bureau administrator that the successful 1957 season in the Kodiak Island area confirm the Bureau's management approach through field closure; but urged that the Bureau seek a means of preventing wasteful practices within the industry. He cited specifically dry handling of King crabs aboard fishing boats and tenders and overcrowding in live boxes.

Wrecked Troller Saved And Wholly Re-fitted

Conchi Ann, troller owned by Filippo Pizzo, Monterey, went on the rocks coming into the harbor recently, and sank. She was salvaged and overhauled at Monterey Boat Works.

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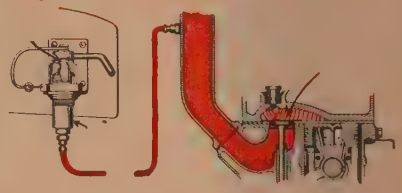

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"There is No Reason Why We Should Sit Idly By"

By W. C. ARNOLD

There are numerous problems facing the salmon industry. Undoubtedly the most urgent is to find a way to stay in business.

But I only want to mention one of them at this time. You have heard here today of the devastation of our Bristol Bay Red salmon runs by the Japanese high seas fishing fleet.

I have just spent 10 days in Vancouver as a member of the Advisory Committee to the American commissioners. I think I know something about the problem and I think I know some of the things we want done about it.

We want the Japanese in 1958 and future years until the provisional treaty line is adjusted, to refrain from fishing east of 170° East Longitude.

This was the position rightly taken by our American commissioners at Vancouver, although it was not advanced with the vigor some of us would have liked.

It is a reasonable request and would only require the Japanese to comply with the spirit, intent and plain terms of the fishery convention entered into as a sequel to signing of the treaty terminating the state of war between the United States and Japan.

That is what the Japanese agreed to do then. That is what they should do now.

The fact that the Japanese lost their salmon resources to Soviet Russia as a result of the war is unfortunate. I wish it were otherwise. However, I do not think we want to let Japan appropriate our American salmon fisheries to compensate for their loss to Russia. My feeling of good will toward Japan does not go that far.

But since the Japanese through their commissioners and government officials will undoubtedly continue, as they did at Vancouver and previously, to pursue a course of dilatory tactics, advancing technical objections, pretending to misunderstand, and generally stalling all efforts to settle the question, I think we have no recourse but to take our problems to Congress and the public.

There is no reason why American fishermen and American salmon canners should sit idly by and see the United States market invaded by Japanese canned salmon taken in violation of the purpose of the treaty and offered for sale in the United States at a cost lower than the production cost of Americans.

I think we are neither helpless or hopeless. The Japanese are largely dependent on the American market for the disposal, not only of their canned salmon, but also of their canned tuna and canned crab meat; all of which is taken on the high seas.

If deprived by Act of Congress or by public opinion of an American market then their high seas fishing fleet would be forced to curtail and American salmon runs would have a chance to survive.

A program along the lines I have suggested will likely succeed if we all put our shoulders to the wheel.

I think we should start at once.

Note—Mr. Arnold is the managing director of the Alaska Salmon Industry, Inc., and a member of the Advisory Committee to the American Section of the International North Pacific Fisheries Commission.

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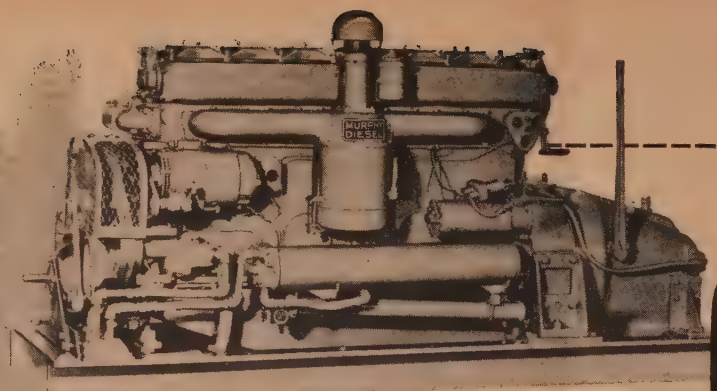

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Protest to the Top Level—

Pacific States Ask U. S. Government Action of Japan's Fishing Policies

● Fishery authorities of the three Pacific states carried the problem of Japan's fishing pressure on salmon stocks of American origin to the highest level of the Department of State November 20.

In a resolution of the Pacific Marine Fisheries Commission, the states of California, Oregon and Washington requested Secretary Dulles to "express to Japan this country's strong feeling for immediate alteration of Japanese fishing practices so as to conform to the principles of the North Pacific fisheries treaty."

● By this action the Pacific states raised the protest against Japanese fishing of salmon of American origin to a new level, and gave it the united voice of the entire Pacific seaboard of the United States.

As reported elsewhere in this issue, the American Section protested at Vancouver and the Japanese Section replied that the subject was not suitable for discussion.

Individuals and organizations since have raised their voices in criticism, and have appealed to Congress.

In the action taken at Portland, the Tri-State Commission spoke in the voice of three great states, and directly to the head of the Department of State—copies to the President, all Congressmen and Senators, governors and cabinet officers concerned.

● Stripped of some of its formal phrases, the Pacific Marine Fisheries Commission resolution declared:

"Washington, Oregon and California have by concurrent legislative action prohibited net fishing for salmon on the high seas by their citizens, and similar and concurrent action has been taken by Canada and the United States, upon the grounds that high seas salmon fishing by nets would nullify and make ineffective programs of salmon conservation; and because the indiscriminate taking of immature salmon at sea by net gear is a wasteful use of the resource.

"A high seas salmon net fishery of constantly increasing intensity is being prosecuted by Japanese nationals in the area of the western Aleutian Islands and northerly thereto, where large numbers of salmon of Northern American origin are being taken.

"The Pacific Marine Fisheries Commission does unequivocably indorse and support the position of the U. S. Section of the International North Pacific Fisheries Commission and does further express its concern that threatened depletion of major stocks of salmon in Alaska will lead to more intense fishing pressure upon remaining salmon populations, and will be a serious threat to those salmon stocks which are administered by the several states.

"The Secretary of State of the United States is requested to express to Japan this country's strong feeling for an immediate alteration of Japanese fishing practices so as to conform to the principles of the North Pacific treaty."

SOUTHEAST ALASKA—

1958 Outlook Optimistic

● Optimistic outlook for the Pink salmon run in Southeast Alaska in 1958, openly acknowledged by the U. S. Bureau of Commercial Fisheries authorities, will be translated into something more than token relaxation in restrictions on operations in that season.

This was disclosed at the regulatory hearings in Seattle in mid-November, and roundly defended by John Gharrett, acting Alaska administrator, when some fishermen challenged aspects of the relaxation affecting traps.

After four years of severe restriction, which started out to be only two years, the relaxation in the expectation of good season was defended by Mr. Gharrett as something the Bureau was "morally obligated" to do.

● Another aspect of relaxation, which might be expected to become permanent, is expected to permit the use of power blocks and drum seines in Southeast Alaska, where they have hitherto been barred.

In general, Alaska fishermen favored opening the district to power blocks, but not to drum seines. Reason for the distinction was not altogether plain, but the implication was there that Alaskans would be inclined to install power blocks themselves, but were not at all sold on the other form of seining mechanization.

● Drum seine gear was defended at the hearings by Robert Glenovich, president, and Dick Kink, secretary, of the Drum Seiners Marketing Association; and Nick Mladinich, secretary, Purse Seine Vessel Owners Association.

● Southeast Alaska packers sided with the Alaska fishermen in opposition to drum seines, but favored power blocks.

Other points which the packers favored included: return to the 36-hour weekly closure; further opening of closed areas; no further expansion of gillnetting, at least until gear curtailed in 1954 is restored to the level existing prior to that time; no early opening of fall Chum fishing.

Gillnetters generally favored: opening to their gear of all waters available to seines and traps; elimination of traps; 50′ opening in trap leads; 3-day fishing week.

Alaska sought, among other things: Trap elimination; trap lead opening; 3-day fishing week; elimination of area licensing, or at least no division of Southeast Alaska into areas; no increase in herring quota.

P. A. Sunderland Dies

P. A. "Pete" Sunderland, 51, a fisheries technologist for British Columbia Packers, Ltd., for 15 years, and one of the best-known men in his field in North America, died suddenly in Vancouver in October.

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ALASKA RESEARCH—

Stepped-Up Studies Aim At Effective Solutions

● Research review by areas featured the Alaska fishery regulations hearings in Seattle in mid-November, Dr. William Royce, assistant administrator in charge of research, in each instance outlining the work which the Bureau of Commercial Fisheries has under way, either through its own staff or contract with the Fisheries Research Institute or the Alaska Department of Fisheries. Stepped-up studies have been made possible through Saltonstall-Kennedy funds.

Synopsis of this work includes these projects:

Southeast Alaska — Study of the effect of logging on productivity of salmon streams; catalogue of some 660-plus salmon streams in the area; study of Pink Salmon migrations routes and rates of travel; intensive study of freshwater phase of Pink salmon and factors affecting mortality in this phase basis for prediction through measurement of downstream migration to produce a fresh water survival index; establishment of a fingerling abundance index during the inshore salt water phase of the young pinks' life cycle as a further basis for prediction of adult return.

Bristol Bay — Beside an extensive Fisheries Research Institute contract for a basic study of the Kvichak Red run, and in addition to the industry-sponsored FRI program on the Wood River system, the Bureau of Commercial Fisheries has seven specific research projects under way on Bristol Bay. These include: development of better methods of sampling; tagging studies of spawning distribution of escapement; test fishing above the commercial area to provide escapement data and samples; tower counting of escapements in three additional tributaries; study of the fishery resources north of Bristol Bay; continuation of the long-range basic, with special attention to measurement of the basic productivity of lakes and a study of spawning behavior.

Predator Control

● *Cook Inlet-Peninsula — Research* study of predators, and particularly sealions and seals is being pursued in several areas of Central Alaska by the Bureau of Commercial Fisheries through its own staff and under contract with the Fisheries Research Institute. Census studies of these animals are about complete and in the immediate future it is planned to undertake a control study of specific rookeries near important salmon areas. B.C.F. policy with respect to the problem of predation was stated by John Gharrett, acting Alaska administrator, in these words: "Control of predators is a part of a good, positive program; but we must know what we are doing, and how to do it effectively.

Lake Rehabilitation

● Specific program aimed at restoration of Karluk Lake Red salmon is emerging from the long study of the mysterious decline of this run in spite of apparently adequate escapement, Dr. Royce told the Kodiak Island regulatory hearing.

He said that a review of all research indicated that the decline at Karluk was not the result of inadequate escapement but of a lack in productivity or of conditions reacting against survival.

Recently there have been indications that predation by bears against the middle portion of the run may have played a large part in the decline.

The next two years are expected to produce an increased Red return to Karluk, but this will be largely protected in the fishery, and the spawners from predation on the gravels. Fertilizing of the lake by chemical means is then planned in an effort to increase its ability to support a substantial population of fry and smolts.

Related to this work is the study on Afognak Island, contractor to the Alaska Department of Fisheries, where lakes barren of salmon are being poisoned to eliminate predators and competitors and then restocked with Reds. Initial studies are said to disclose interesting possibilities in spite of the rather high cost.

C. L. Anderson Reappointed Alaska Fish Director

The Alaska Fish and Game Commission at its annual fall meeting, November 18 in Juneau, expressed their appreciation and full confidence in C. L. Anderson, Director of the Alaska Department of Fish and Game, and unanimously reappointed him for another five-year term.

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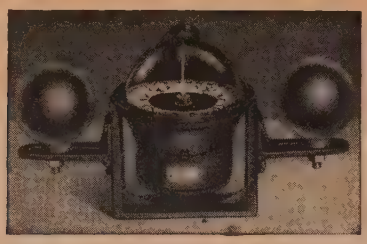

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OPPOSITION FOCUSES ON—

Japanese Operations . . Traps Area Licensing . . Predators

• Area licensing came under almost as much and as bitter criticism as the Japanese high seas fishing operations when the Bureau of Commercial Fisheries' Alaska regulatory proposals for Central Alaska in 1958 came up for hearing in Seattle in mid-November.

As a matter of fact, fisherman antagonism seemed to fall on:

1. Japanese operations.
2. Area licensing.
3. Predators.
4. Fish traps.

— and in that order.

One Kodiak fisherman even contended that the Japanese are working a hardship on the animal predators, saying: "The Japanese are getting so many of our fish that even the seals are going hungry."

• Bitterest criticism of the Bureau's conservation program voiced during the entire three days of hearings came at the Kodiak Island session. Cook Inlet and the herring hearing, usually caustic, developed no heat whatever.

Actually, the hearings as a whole were quiet, and most of the suggestions were reasonable and offered temperately.

As a matter of fact, the Bureau proposed comparatively few changes from the pattern of 1957, and those suggested generally were either of minor character or designed to provide remedies for flaws or inequities which had become manifest.

With respect to area licensing, objected to by a number of fishermen, John Gharrett, acting Alaska administrator, gave the objectors scant grounds for hope, declaring that the Bureau felt area licensing has well served the purpose for which it prescribed: to prevent rapid shifting of mobile gear between areas with resultant destructive concentration of fishing effort.

Intemperate tirades are apt to get the headlines while commendation goes recorded only by the court reporter. The fact remains that, if not in number, certainly in weight, approval voiced and implied of the Bureau's program and management exceeded the criticisms.

• Kodiak prospects for 1958 are not considered bright, and this is particularly true of the late Pink run, for the rebuilding of which some of the regulatory changes are designed.

A hint as to what the summer may bring in the way of emergency regulations was seen in the statement that the Kodiak concentration of around 400 seiners was "well above the saturation point; and if the growth in mobile gear concentration continues it will force drastic reduction in fishing time."

SCIENTIFIC SEINER—

Sea Water Chilled Craft Tank-Tested

• Another steel combination halibut and salmon vessel is being built in British Columbia this winter—a tank-tested 75 footer whose name has yet to be chosen. Captain Malvin Mjos will be the owner, and the yard at which the boat is being built is Yarrows, Ltd., at Esquimalt.

Several months ago Captain Mjos built the *Silver Viking* at the A.C. Benson shipyard, Vancouver, and it was notable for its advanced equipment. So well regarded was *Silver Viking* by the Fisheries Research Board that it arranged for the vessel's purchase, and during the coming year it will be used for various research projects.

Captain Mjos' new boat will resemble the *Silver Viking* in some respects, but in its steel construction and accommodation for refrigeration it will be more similar to *Pacific Ocean* (described in Pacific Fisherman October, 1957).

There will be six separate steel tanks installed in the new craft with provision for 100 tons of fish, and there will be space between the tanks for additional loads. Total carrying capacity will be about 50% greater than *Pacific Ocean's,* which had four large tanks and two smaller ones. Refrigeration facilities were installed by General Refrigeration & Engineering Co.

Main engine is a 290-hp. Caterpillar diesel. The generating set will also be powered by a Caterpillar engine. When fishing, the generating will be set at 30 kw, and when the vessel is at cruising speed the generator off the main engine will be set at 25 kw.

The National Research Council of Canada has been co-operating with the fishing industry and British Columbia boatyards in design and construction of steel hull forms suitable for west coast operation. Boatbuilders in the Vancouver area claim that larger steel seiners actually cost less to build these days than wooden vessels of similar dimensions, with maintenance costs appreciably lower.

Models of Captain Mjo's new vessel have been tank tested by the Research Council at Ottawa.

Alaska Packers Shift Puget Area Responsibility

Effective in November, a new area division has been created in the Alaska Packers Association program of operations. John Wilkinson, who has been employed in various capacities at Alaska Packers Association for the past 40 years, has been appointed Puget Sound Area Manager and will be in charge of all operations on Puget Sound, with headquarters at Blaine. The Association's activities at Blaine include salmon canning for the Puget Sound area, boat and machinery repair, and warehousing for the Association's packing activities in Alaska and Puget Sound.

Don Cooper, formerly superintendent of the Blaine cannery, has been transferred to the new position of Production Coordinator and will now be in the Seattle office.

BRISTOL BAY—
Japanese Fishing Pressure Endangers Salmon Resource

● Japanese fishing operations on the high seas must be taken into consideration by the Bureau of Commercial Fisheries in writing the Alaska fishery regulations, Donald L. McKernan, its director, told the Western Alaska salmon industry at a meeting on 1958 regulations in Seattle in mid-November.

He declared without equivocation that research had shown Red salmon of American origin range far to Westward of the Abstention Line, and that they are being taken there in large *and increasing* quantities.

How many? Mr. McKernan spoke of "several million," and said the number was so great that it is interfering with management of the Alaska fishery resource by the U. S. Bureau of Commercial Fisheries.

● George Johansen, secretary of the Alaska Fishermen's Union, echoed the concern vigorously, saying: "Our conservation measures are proving effective in themselves, but are being negated by the Japanese, who are profiting by our sacrifices.

"There is no time to lose in meeting this critical situation. We need an emergency arrangement if this resource is not to be gravely damaged or destroyed within this cycle.

"If we fail in securing positive emergency relief, then we shall have no course but to invoke a consumer boycott of Japanese canned salmon and other commodities sold in the United States."

An advisor to the Japanese Section of the International North Pacific Fisheries Commission, present at the time, showed keen interest in the Johansen statement.

● Principal recommendations to the Bureau with respect to its regulatory proposals for 1958 — which involved salmon no change from the 1957 text — was reiteration of the long-standing objection to "No-Man's Land," an area closed to fishing in Bristol Bay.

Both Mr. Johansen and Elmer Harris of the Alaska Salmon Industry, speaking for the Bristol Bay operators, took strong positions in favor of reopening this area to fishing on the ground that to do so would prevent damaging concentration of gear; would eliminate a hazard to the safety of fishermen; and would remove a source of law violation as well as the "entrapment" of innocent fishermen.

John Gharrett, acting Alaska administrator, gave the protestants scant encouragement, saying that research shows that increasing the fishing area by the elimination of "No-Man's Land" would actually increase the fishing pressure on the runs; and could only be justified at the cost of a reduction in fishing time."

Guardsmen Save Pair From Sinking Craft

A heroic rescue by Crescent City, Calif., Coast Guardsmen last month whisked two men, one of them disabled by injury from the 40′ combination boat *Fish Hawk* of Coos Bay, just minutes before it sank.

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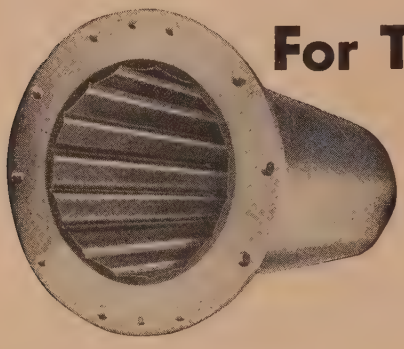

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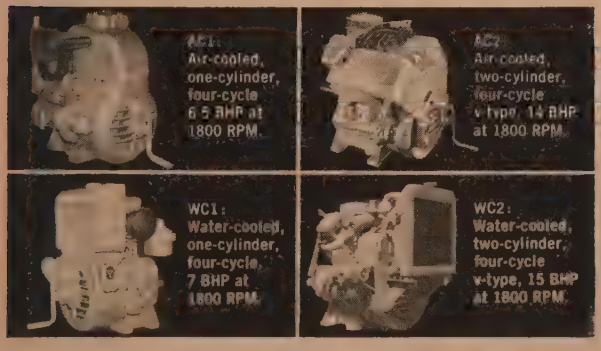
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Where Japanese Report Finding Atlantic Tunas

• Fishing results reported by the Japanese research vessels for their prospecting voyages in the Atlantic are briefed in a report by Dr. Mitsua Nagai and Jun Nakagome of the resources department of the Kanagawa Prefectural Fisheries Experiment Station.

They find species distribution and fishing productivity thus:

Yellowfin are found in abundance in the North Equatorial Current area, the South Equatorial Current, the Equatorial Counter-Current Area, and the Guinea Current Area. They are definitely less abundant in the Brazil Current Area.

Bigeye tuna have been found in prevailing abundance in all current areas except the Guinea Current, where none have been taken.

Albacore are plentiful in the Brazil Current Area. They are very scarce in the Guinea Current Area in summer. Occurrence in the North Equatorial Current is not known.

Atlantic Blue Marlin are extremely numerous in the winter in the North Equatorial Current and the Brazil Current, although unknown in the other areas under study.

Sailfish distribution is almost identical with that of the Bigeye.

Monterey Fish Bits

Manuel Balestrieri, well known Monterey boat owner, accompanied by Mrs. Balestrieri, will shortly leave on a three month's trip to his home of San Nicola, near Palermo, Sicily. Mr. Balestrieri left there 53 years ago, and hasn't been back since. His cousin, Frank Balestrieri, who works for the Regal Sea Food Co., Monterey, will accompany them.

Nuncio D'Acquisto, owner of A. D'Acquisto & Sons fishermens equipment and supply store, Fishermens Wharf, Monterey, reports good acceptance of Tubbs Cordage Co. nylon rope, which was introduced in Monterey recently. It is used principally for slings, cork lines, tow lines, etc.

New Roma, Monterey purse seiner, skippered by Neno Davi, and fishing for Santa Cruz Canning Co., Moss Landing, has been repowered with a GM 6-71 diesel engine purchased from Crofton Diesel Engine Co., San Pedro. *New Roma* was high boat of the Monterey sardine fleet fishing out of Port Hueneme by the middle of November.

3 Calif. Craft Converted For Iranian Trawl Duties

Two California purse seiners, *Pacific Star*, formerly owned by Sam Lonero, Monterey, and *West Coast*, formerly owned by Van Camp Sea Foods Inc., Terminal Island, have been sold to Maigu Co., an Iranian fishing company with headquarters in Teheran.

A 136' PCS, former Navy patrol boat, which has been at the San Francisco yards of Anderson & Cristofani, has also been purchased. The two seiners will be converted to draggers at the Anderson & Cristofani yards, and the PCS to a reefer, for use as a mother ship.

The main engines on the purse seiners are 320-hp. Atlas-Imperial diesels. Stroudsburg dragging winches are being installed, the boats are being air conditioned, and in addition they will each be fitted with 1-ton Vilter Pakicers to be installed by Ralph E. Manns Co., San Francisco. In the pilot house of each will be Bendix recording depth sounders and Bendix direction finders.

The reefer, which is powered with twin GM 500-hp. diesel engines, will be christened *Maigu I*, and the other ships, *Maigu II* and *Maigu III*.

Refrigeration on *Maigu I* will be two 8-cyl. Vilter ice machines with a capacity of 72 tons each. They will be direct driven by two General Motors Detroit diesels Model 6-71, from Crofton Diesel Engine Co., San Pedro. There will also be two 7½ ton Vilter Pakicers, and an Amerio cabinet-type plate freezer, 12 tons per 24 hours capacity.

The holding capacity of *Maigu I* will be 100 tons at -50. The hold will be insulated with eight inches of Styrofoam.

The trawlers will fish in the Persian Gulf for shrimp and bottom fish, which will be packaged and frozen.

John E. Rawlings, an official of the Maigu company will direct operations of the three vessels. Mr. Rawlings was formerly skipper of the southern California tuna clipper *Paramount*. He has fished for shrimp in the Gulf of Mexico, and was also with the U. S. Fish & Wildlife Service at one time.

F. T. Brien Handles Sales For Pacific Marine Supply

A new sales position and a new man to fill it was announced this fall for Pacific Marine Supply Co. by Robert D. Ladd, vice-president and general manager, who introduced F. T. Brien as the company's director of sales.

In this position, Mr. Brien is in charge of all aspects of the firm's selling, as well as for its sales personnel and training. He has long experience in sales work, and particularly in the electric and electronic lines which have become so important in the fisheries and marine industries. For 13 years he was with the Graybar Electric Co. as manager of its marine department and as general sales manager. Then for 10 years he has been owner and general manager of Radio-Television Appliances.

With Edward Cunningham, president of Pacific Marine Supply Co., this fall celebrating his 60 years with the company and its predecessor, which he founded, the famous house exerts great attraction for Mr. Brien, who finds in its long-established position and reputation a stimulating background for the challenge of a new job implementing a forward-looking policy of centralize sales direction.

B & W Alphas Power Danish Boats for Chile

An uncommon event took place recently when three modern fishing boats left Denmark bound for Chile. These boats, each 53 tons, were ordered by the firm of Austral in Valparaiso, and all the boats are equipped with B&W ALPHA engines of the type 344 VO - i. e. 4-cylinder engines with hydraulically operated controllable pitch propeller, developing 200/220 bhp. at 450 rpm. Two of them were built by Soren Larsen at Nykobing M, Denmark, and the third by C. E. K. Jensen, Nyborg, Denmark. They are specially built for the form of fishery developed in Chile, where fishing is carried out from the stern. Therefore, the wheel-house, the crew's accommodation and the engine are placed in the forepart.

When fishing off Chile, the crew of each ship will comprise of six men, most of them Danish fishermen who have bound themselves for three years in Chile.

The price of each boat is about half a million kroner, (about $72,-500) to which must be added the cost of the fishing tackle, which also has been supplied from Denmark.

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Since coming to Blaine, three years ago, Larson's list of regular customers has grown to over 350 of the almost 500 boats which are operating out of the Blaine Marina.

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SEAFOOD—An Aid in the Diet Of Atherosclerotic Patients

By
AVERLY M. NELSON, M.D., F.A.C.C.

● Foremost health problems needing solution in the United States is the disease atherosclerosis, commonly called "hardening of the arteries." If present trends continue 60% of Americans past 40 years of age will succumb to this disease. The problem is huge, but research work suggests that it is definitely capable of solution.

From studies made in selected countries it is evident that atherosclerosis is more prevalent among people having higher blood cholesterol levels, which are directly related to the amount of fat consumed. To expedite the study of the effect of fat in human nutrition, it is impossible to confine research to the American people alone, for nearly all are subject to high fat intake. It becomes necessary to turn to other environments fully to complete the study of fat intake, blood cholesterol levels, and the amount of atherosclerosis. Without exception, in countries studied, such as Japan, Italy, Finland, South Africa, Norway, Sweden, India, Costa Rica, and the Hawaiian Islands, it is clear that the amount of atherosclerosis depends on the blood cholesterol levels, which in turn are determined by fat intake.

Saturated and Unsaturated Fats

● All fats are not similar in their action. The unsaturated fats exert a cholesterol lowering action, while the saturated fats tend to increase blood cholesterol levels. The unsaturated fats are those which have occasional double bonds connecting the carbon atoms in their chain. Examples are corn oil, safflower seed oil, nut oils, and fats of numerous—but not all—fish.

The saturated fats seem to be the villain in atherosclerosis. Animals which form their fat from carbohydrates are unable to synthesize any fat but a saturated type. It becomes apparent that the most commonly used meats in the American diet, and to a lesser extent poultry, represent saturated fats. Unless these meats are prepared in such manner that much of the fat is lost before consumption they exert an atherosclerotic effect.

Another aggravating factor is that of hydrogenating vegetable oils for commercial shortenings which means that a relatively unsaturated fat is chemically made saturated for greater ease in all-purpose cookery.

Recent research has shown that it takes three tablespoonfuls of corn oil to neutralize the blood cholesterol raising effect of one tablespoonful of butter, animal fat, or hydrogenated vegetable oil. This might falsely suggest that the remedy lies in merely increasing the consumption of unsaturated fats. However, a diet high in fat either saturated or unsaturated causes an increased tendency for the blood to clot, and so while blood cholesterol shifts might be obtained, blood vessels with minimal disease could clot more readily and thus the hazard actually increased.

Moreover, if one is to consume the usual American diet and add unsaturated fat in sufficient quantity to lower blood cholesterol the diet would contain 70 to 80% of its calories in the form of fat. This is extremely unpalatable and can be tolerated only for very short periods. We have no record of any people following such a diet and it represents laboratory experimentation carried into practice without precedence.

Meaning of Percent Fat in Diet

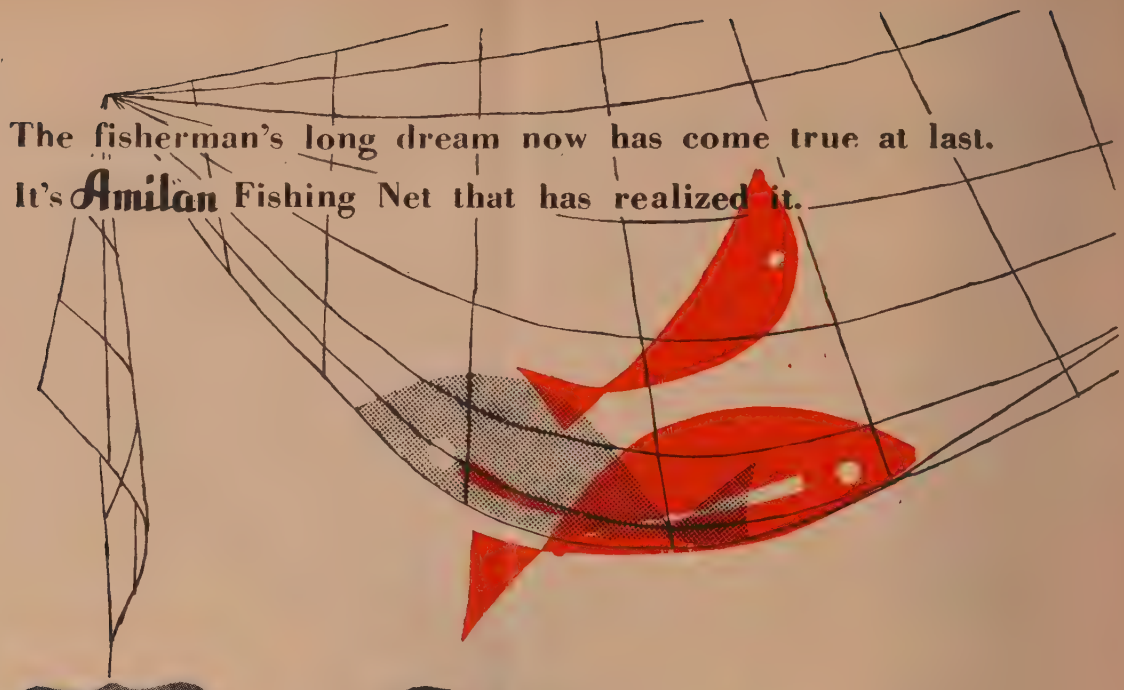
● From studies already made in other countries it is possible to predict the amount of atherosclerosis based on the per cent of calories furnished by fat in the diet. The Japanese diet supplies about 9 to 12% of the day's calories in the form of fat and the rate of atherosclerosis is about one-tenth our own. When more than 28% of the calories are supplied by fat the rate of atherosclerosis increases proportionally until when reaching 40% or more, as we have done, atherosclerosis becomes a veritable plague.

The therapeutic diets which we have used for atherosclerotic patients for eight years have about 20% fat calories. All fats are reduced in this diet. Meats are prepared by low fat cookery but still contain from 25 to 30 grams of fat in every eight ounces, or two servings. This diet used in 175 patients treated for periods varying from 5 to 8 years has been about 60%

Dr. Nelson is a Seattle specialist in diseases of the heart. His work, as suggested in this article, indicates that many fish and seafoods can contribute most importantly to the lowering of blood cholesterol, while at the same time providing the patient with needed protein and unsaturated fats in limited degree.

Dr. Nelson presented his findings in more extended form in an address before the Northwest Fisheries Association at Seattle in November.

While the work here reported upon is concerned essentially with the diet treatment of patients who have suffered heart attacks in one degree or another, and has large significance to the fish industry on that account alone, it points to a possibility of immensely greater importance. This is the use of fish and seafoods on a prophylactic basis. More research work will have to be done as to this interesting possibility.



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successful in lowering blood cholesterol levels, and this group enjoys a death rate one-third as high as expected. In Norway during the war where necessity reduced the fat intake a similar fall in death attributal to atherosclerosis occurred. Numerous medical writers have reported a lowering in death rate related to a lowering of fat intake.

Atherosclerosis is an extremely treacherous disease. It is not detected until manifesting itself by arterial occlusion and thus the first warning comes only after considerable disease is present. Obviously, prevention is the solution.

Why Seafoods are Important Diet

● The accompanying table shows the fat content of some of the more popular Pacific seafoods. Most of these are low in fat, with the exceptions of King salmon and Columbia River smelt. (The cholesterol lowering or raising effects of the fat in these fish is unkonwn at this time.) However, to those low in fat we can add unsaturated fat and still have a total fat equivalent to beef, the commonly used meat in our work. This added unsaturated fat may be used to aid cooking, in flavorsome seafood dressings, or in side salad dressings. The result is a flesh protein product of many varieties, excellent in nutritional value, and

FAT CONTENT OF COMMON NORTHWEST SEAFOODS (in grams per 8 ozs.)

	Grams
Scallops	.3
Sole	.5
Cod	.8
Tuna in water	1.2
Yellow Perch	1.6
Clams	3.2
Shrimp	3.2
Ocean Smelt	4.4
Oysters	4.7
Crab	6.1
Halibut	10
Herring	11
Salmon —	
Chum	11.8
Pink	14.1
Silver	19.1
Sockeye	21.8
King	30

favorable patient acceptance.

In the above manner it is possible, by serving seafood a minimum of three servings a week, at spaced intervals, to have a diet low in fat and yet relatively high in unsaturated fat. This situation approximates that of countries enjoying a low death rate from atherosclerosis. Theoretically, from all knowledge now known regarding atherosclerosis, a diet of this type is desired.

Now, instead of lowering cholesterol in from 60 to 70% of patients it can be changed in about 95% of the cases. The leverage exerted by this simple method in diet makes it possible to add more eggs each week to the patients diet and make it Americanized in type, with much wider patient acceptance.

In this work the low fat diet including seafoods has been found practical and effective. We have learned that we must treat both the body and minds of patients.

The low-fat program could be continued indefinitely as far as the body welfare is concerned, but in practice the patient is living in a society in which other members are partaking in very high saturated fats — and for practical purposes this must be recognized.

It is possible now to give the patient four consecutive meals a week — such as Saturday supper and all meals on Sunday — completely off diet and still maintain cholesterol correction. We can also allow two or three additional meals off-diet by the pre-meal use of sitosterol, and still hold cholesterol correction thus the patient can associate with friends and not deny himself social dining — which was a serious barrier to full observance in previous treatments.

Antedating recorded history, seafood has played an important role in the diet of man. It appears likely now that again our descendants will realize the importance of this simple food.

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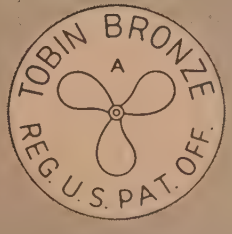

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For additional information on Tobin Bronze Shafting—or its companion, Tempaloy,* Anaconda's aluminum-bronze shafting which combines maximum strength and toughness with comparatively light weight, for high speed or heavy duty—see your Anaconda distributor or dealer. Or write: The American Brass Company, Waterbury 20, Conn. District Sales Offices: Los Angeles 17, Calif., at 816 West 5th St.—San Francisco 4, Calif., at 120 Montgomery St.—Seattle 1, Wash., at 902 White-Henry-Stuart Bldg.

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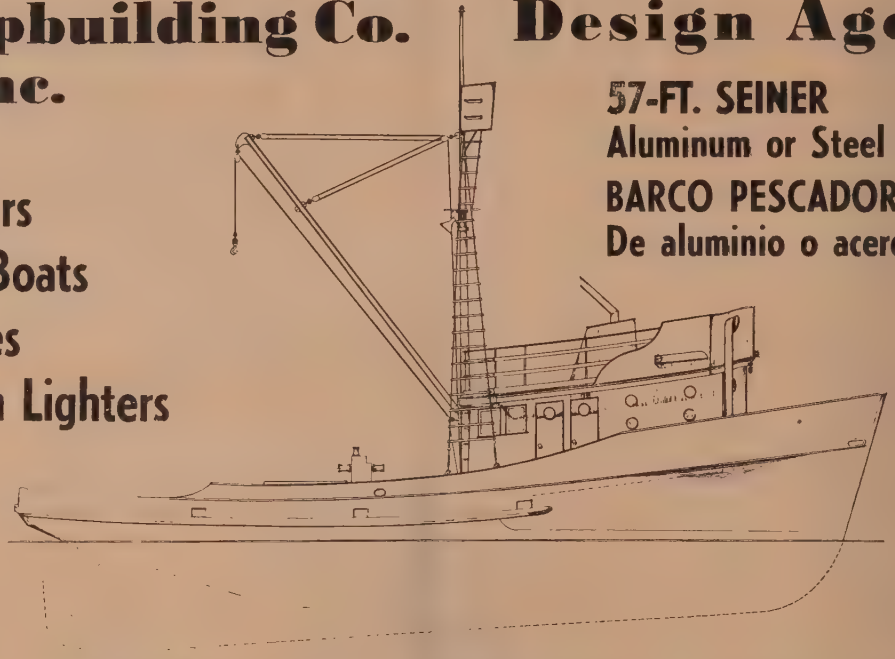

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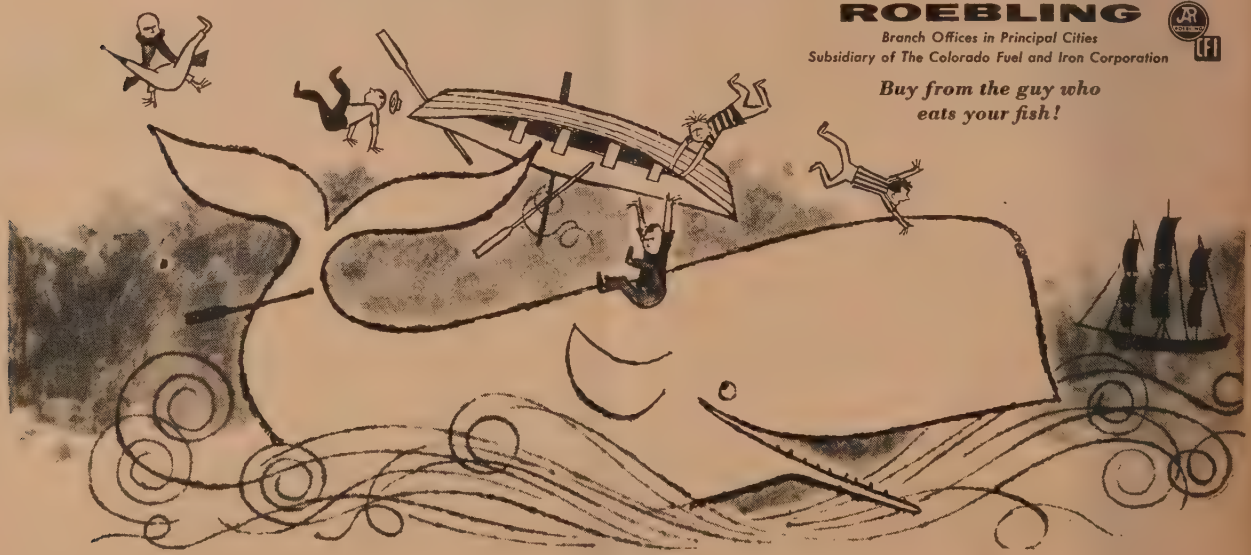

LETTER FROM LIMA—

Market Weakness Cuts Bonito Canning; Anchovy Reduction Runs at Fast Pace

(Staff Correspondence from Lima, Peru)

"Open Air" Canning at Bebsa S.A., Chimbote, one of the small, but fast-growing Peruvian bonito canneries. Note that the cannery is roofed only with estera, the split-cane matting, used primarily as shade in a land where rain is virtually unknown. The process here is on a "batch" basis, with the same crew preparing a quantity of loins and the changing roles and filling cans.

● The dominant preoccupation among Peruvian canners in October was whether or not it was economical or wise to consider packing Bonito at all this season.

The lack of interest among U.S. importers for canned Bonito, particularly for solid pack ½s, and the retirement—temporarily it was hoped—of British and European buyers from the Peruvian market was a source of understandable worry. At about this time of the year the major British buyers normally have placed their contracts to cover deliveries of canned fish from November through to April. Although the standards for quality were—and in fact still are—most exacting, the premium paid over and above the U.S. market compensated for the additional care and selection required before shipping to Great Britain.

Contracts for the coming season with Great Britain have been limited to ¼s only, a total of about 100,000 cases having been booked among six canners, against three times that volume among many more canners last season. It is reported that the principal British buyer, who unquestionably sets the pace for the rest of the British market, refused to consider contracts for ½s until such time as an appreciable portion of the bookings for ¼s had been fulfilled.

The price decline set by this buyer, regardless of the fact that the standards for quality were to be, if anything, more exacting than in the past, was quite considerable. The quotations for quarters are said to have been established at 65/— per carton 96/¼ CIF UK as against 77/— for the same style pack effective during the last season, a drop of 12/— per case or roughly 15%.

● The reduction in the volume of bookings and the price differential, added to the dullness of the U.S. market, is expected to have far-reaching consequences. In the first place, 12 canneries with a potential production of about 800,000 cases ½s were reported to have closed down, or were about to do so, it being highly doubtful whether any one of them would decide to open unless unforeseen developments should take place. The price of raw fish followed the downward trend reaching such limits that it was practically uneconomic for the private boat owners to operate. The boat owners and fishermen threatened to strike for higher prices with negotiations at the time of writing under way.

It was estimated that unless the fishermen and boat owners were to accept prices which would leave the boat owner with a marginal profit, the canneries still operating at that time would be forced to close down, in expectation of improved U.S. prices and demand from Great Britain. No doubt some canneries with U.K. contract will continue to operate, as also a limited number of canneries with supposedly low operating costs; but on the whole it is estimated that the seasonal production of canned Bonito will hardly reach 1,000,000 cases of ½s as against 1,800,000 c/s. last season. Since practically all of the canneries calculated to operate require bank loans or credit, even the estimated pack may be subject to a reduction as the local banks were not considering the cannery business with much sympathy.

It was felt that the fishing effort for Bonito, given the prices the boat owners could expect to receive under the present circumstances, might be also impaired as the larger fishing vessels were endeavouring to obtain delivery contracts for Anchovy with the meal processors.

● The lack of interest in the U.S. market for canned bonito was attributed to two factors, the lack of stability of the Peruvian quotations and the lack of an advertisement program, which the industry some time back had intended to finance on a per carton basis. It was felt that with the elimination of about 800,000 c/s. the sales pressure would be considerably reduced thereby stabilizing to some extent the f.o.b. prices and permitting U.S. importers to handle merchandise on a less speculative basis. On the other hand it was not felt

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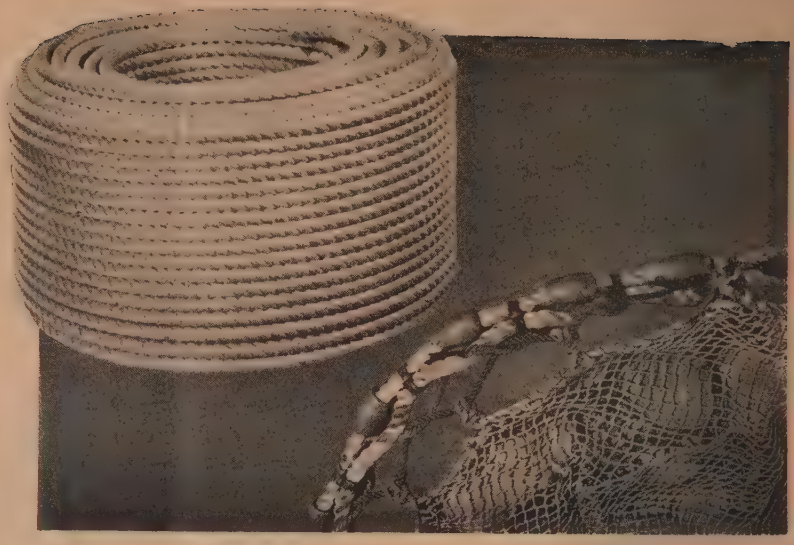

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that a market improvement of prices would occur since following the peculiar custom of the cannery industry, the saving in fish cost would be ceded to U.S. importers in the form of price reduction. Current prices offered by the Peruvian canners were said to fluctuate in solid halves from US $5.10 to US $5.20 per carton, flakes being quoted at US $4.20 to US $4.30.

● With heavy Anchovy fishing off Callao and the Chimbore area, meal production had been extremely good through October although oil recovery had not been particularly good in view of the low oil content of the raw fish. The Callao area landings had been extremely good, averaging around 1,000 tons a day of Anchovy, with the reduction plants on a round-the-clock operation.

A noticable factor in Anchovy fishing was the elimination of cotton seines in favor of nylon or other synthetic seines, notwithstanding the heavy price differential. It was stated that the durability and the possibility of a continued operation without time off for steining nets, offset the price differential.

It was estimated, at the time of writing, that around 10/12,000 tons of meal had been sold for delivery October/January, Germany and Holland having absorbed the major portion of the sales at prices varying from US $2.06 to US $2.12 per unit of protein, cif. European ports.

● For fear of Salmonella contamination, the German government had issued a new regulation covering the importation of fish meal effective of January 1, 1958, whereby all meal shipped to that market must be packed in paper bags. Since the meal produced in Peru is all machine processed and dried by direct heat furnace dryers, the new regulation would not affect the shipments of meal to Germany.

However the additional precaution of packing in paper bags would eliminate any possible chance of future contamination.

Freight space for meal was easier than at the same period in 1957 and it was felt that there would not be much difficulty for the existing steamship lines to carry the product of Peruvian meal estimated at around 60,000 tons.

The diversification of the Peruvian fishing industry is expected to compensate the reduction in the value of the export of canned products and since most of the canners operate meal reduction plants, as well, the final financial seasonal results might not be as gloomy as were anticipated.

Opinions were unanimous in considering that the Peruvian Bonito packing industry was going through the most serious crisis of its existence, but it was also felt that the final results of such a crisis might be beneficial by forcing inexperienced operators to either close down or to adjust themselves to realities. Whether the banks will give such type of operators time to review their past errors, and money to adapt themselves to realities, remains to be seen.

Luis Banchero Returns To Peru from Europe

Luis Banchero, Lima, Peru, managing director, Cia. Pesquera "La Florida" S.A., a bonito canning company, and a partner in Pesquera Humboldt, S.A., a fish reduction plant, recently paid Wilbur-Ellis Co., San Francisco, a visit before leaving for Peru after a business trip to Denmark, England and Italy. Mr. Banchero also operates a large fleet of purse seiners. While in California he spent some time looking for canning and reduction machinery.

J. V. Manners, Paperbox Manufacturer, Dies

The many friends of John V. Manners, 60, founder and president of Paperbox Corporation, Oakland, manufacturers of food containers, will be grieved to learn of his death after a lengthy illness.

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FEDERAL propellers are no new or untried products with DIESEL ENGINE SALES, shipbuilders of St. Augustine, Florida. The fact, therefore, that they selected FEDERAL wheels for all of the 6 vessels recently delivered to PRODUCTOS REFRIGERADOS and PESQUERA ATLANTIDA, as well as the 6 similar vessels still under construction for them, speaks volumes for the high regard FEDERAL wheels have earned with this outstanding builder — just as they have with leading builders throughout the nation. For the finest possible performance and the most your propeller dollars will buy, see your FEDERAL Dealer or write us concerning your requirements. FREE catalog sent on request.

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FOOD FISH MARKETING

Section of PACIFIC FISHERMAN--

News and Views of National Trade in Fish and Shellfish

December, 1957

5-Year Salmon Promotion Program Fully Signed-up

● Canned salmon promotion on a national scale and a continuing program was achieved in November and immediately slipped into gear, Aubin Barrhold, president of the Alaska Packers Association, told the Association of Pacific Fisheries at its 44th annual convention at Seattle in November.

Howard Scott tells salmon industry of planned pattern of its new product promotion campaign.

At that time more than 80% of the 1957 pack of canned salmon had subscribed to the campaign on a five-year basis. It is anticipated that by the time the promotion and advertising is well launched the participation percentage will come close to 90%.

Howard Scott, president, Deming & Gould Co., in analyzing the opportunity for the industry latent in the undertaking, said: "This is no mushroom. It is a sound, strong, continuing campaign for the education of the American housewife in *why* and *how* to use canned salmon."

Leo T. Kreielshimer, president of Kadiak Fisheries Co., is the industry chairman of the promotion enterprise, while L. A. Petersen, sales manager of New England Fish Co., heads the group of merchandising specialists charged with planning.

The committee has retained Cole & Weber, Seattle and Portland advertising and public relations agency, to execute the campaign.

● Outline of the promotion as crystalized at presstime calls an undertaking designed to:

1. Publicize canned salmon to the homemaker through recipes and photos in food pages of newspapers, in national magazines, on radio and TV.
2. Educate the younger generation as to how and why they should use canned salmon through home economic teachers; a salmon industry motion picture film.
3. Provide publicity and advertising in trade bulletins through the regular trade and institutional media.
4. Develop tie-in promotions with canned salmon with related items.

Other projects which will be developed as becomes possible include:

1. Up-to-date canned salmon recipe books.
2. Point-of-sale material.
3. A canned salmon fact book for food editors.

Southern California Domestic Tuna Deliveries

Cumulative totals for 1957 through Nov. 9, in tons, as reported by U. S. Market News Service

	Albacore	Bluefin	Skipjack	Yellowfin	Bonito & Yellowtail	Total
Clippers and Albacore fleet	18,355	...	37,524	50,287	47	106,213
Purse seiners	63	9,725	3,063	15,351	24	28,226
Total 1957 through Nov. 9	18,418	9,725	40,587	65,638	71	134,439
Total 1956	16,372	6,142	50,008	71,268	46	143,837
Total 1955	11,020	5,771	37,789	45,504	25	100,109

California Imports of Frozen Tuna

Cumulative data in tons for 1957 through Nov. 9. For other years to closest comparable dates. Data from U. S. Market News Service.

	Albacore	Skipjack	Yellowfin	Unclassified	Total
San Francisco	2,774	...	4,091	...	6,865
San Pedro	13,417	8,253	14,285	45	36,000
San Diego	806	1,087	1,273	570	3,736
Total, Jan. to Nov. 9	16,997	9,340	19,649	615	46,601
1956	7,173	7,370	26,030	161	40,734
1955	22,458	8,997	17,996	487	49,938

Fish Marketing Conferences Click in California

The Southern California Fisheries Association's series of conferences on Successful Fish Marketing got under way in Los Angeles on Oct. 28. Five meetings are scheduled, under joint sponsorship of S.C.F.A., U. S. Department of Interior, Fish and Wildlife Service and the Adult Education Division of the Los Angeles City Schools.

At the first conference a certified public accountant spoke on the role of accounting in small business. At the same session, Dom Bria, credit manager of Los Angeles Smoking and Curing Co., discussed the granting of credit and need for prompt collection of accounts, especially those of new or unproven firms. Following Mr. Bria's talk, a lively group discussion was directed by Glen R. Baker of Baker-Johnson Co.

At the second meeting on Nov. 4 a further discussion of credits and collections took place. Concluding the conference, David Roberts of Sunkist Growers showed a colored film and offered his organization's cooperation in backing up the fresh and frozen fish industry in California with tie-in promotional display material for stimulation of buyers at point-of-sale.

As a result of interest shown in discussions on extending credit, Pres. Frank Tsuchiya asked credit activities chairman, Dominic Bria, and his committee to set up an overall system on credit terms to be submitted to wholesalers for approval.

Assessing the first three meetings, Bart Ghio, secretary of S.C.F.A., expressed enthusiasm over progress being made at the conferences but took to task some distributors for their apathy and called for greater expenditure of personal time, effort and money by persons in the industry in order to achieve the association's goals.

1957 Preview — Canned Salmon Quality

● First report on 1957 pack canned salmon quality as disclosed by examinations in the inspection laboratory of the Northwest Branch of the National Canners Association was given to the 44th annual convention of the Association of Pacific Fisheries at Seattle November 11 by Walter Yonker, manager of the branch.

His appraisal of pack by areas, and based on inspection results thus far, was:

Yukon River—Good quality.

Bristol Bay—There was a return in 1957 to the usual standard of quality, with good color and oil.

Peninsula—A typical pack, with the exception that the color of the Pinks was much above normal, a condition found in a number of other areas.

Kodiak—Pack normal in quality, with the excellent color in Pinks as an added attraction.

Cook Inlet—Satisfactory, except for that portion of the Pink pack which was composed of extremely small fish.

Prince William Sound—Normal pack.

Copper River—Sockeyes very fine.

Southeast Alaska—Good pack, featured by fine early Chums, high color in Pinks, and exceedingly fine Reds.

Puget Sound—Pink color did not share the plus-value noted in Alaska; Sockeyes up to normal standard.

Columbia River—Good pack, well graded.

Fall Chum Packs—Fell below normal standards.

K. Momoi Netting Head Visits U. S. Distributors

A recent visitor to the West Coast was K. Momoi, managing director, Momoi Fishing Net Mfg. Co., Ltd., Ako, Japan.

Mr. Momoi was en route to Europe where he attended the International Fishing Gear Conference at Copenhagen. Then he visited other European countries, and returned to Japan early last month.

Wilbur-Ellis Co. and Connell Bros. handle the sales of Momoi Marlon netting, not only for the United States, but in South and Southwest Africa, Peru, and other areas. While in California Mr. Momoi spent several days conferring with James R. Townsend, San Francisco fisheries consultant.

Year-Round Shrimp-Crab Status for Paladini Plant

The A. Paladini, Inc., Fort Bragg, Calif., plant has been improved with the addition of a new crab and shrimp cooker, with steam supplied by a 30-hp. boiler.

A new 40x60 crab and shrimp picking room has been added to the plant, entirely separated from the fillet line. Picking tables are stainless steel. Shrimps will be packed in one and 5-lb. vacuum packed American Can Co. cans closed by a Canco closing machine. The product will be marketed under Paladini brand.

Over the new addition to the plant is warehouse space capable of holding four carloads of cans.

Restaurant Profits From Fish Alhadeff's Theme

Some 800 of the West's leading restauranteurs were exposed to an interesting and down-to-pocketbook discussion on "New Profits From the Sea" by Charles D. Alhadeff, Whiz Fish Co., Seattle, as he addressed the members of the Western State Restaurant Convention at San Francisco on October 16th.

The advantages of seafoods in stability of price, portion control, nutritive value and merchandising glamour to cook, cashier and customer were pointed out to the assemblage.

Mr. Alhadeff's appearance at this convention, largest restaurant show west of Chicago, was arranged by the publicity committee of the Northern California Sea Food Instiute.

He closed his address with this keynote:

"Seafoods offer stability of price, portion control, nutritive value and merchandising glamor. These are qualities for the cook *and the cashier*. The drama and character of food from the sea, with its wide variety of fresh water fish, salt water fish, rich, lean, from the North, from the South, the Orient, the Occident, regional and national—these are qualities for the restauranteur with vision, the salesman, the merchandiser, the man who makes a *name* while he makes a *profit*."

"Carnation" Label Licensed For Central's Shrimp

W. W. Durney, president of Seafare Corporation, Los Angeles, announced that Central Fish & Oyster Co., James Harvey, president, has received an exclusive license for certain frozen shrimp products under the famous Carnation label for the 11 Western states, both institutional and retail.

Central Fish & Oyster Co. is one of the largest shrimp processors in Southern California and this is regarded an important step in the Western Division of the national Carnation seafood program.

Carnation Seafood sales from Central Fish & Oyster Co. will be handled by Koulouris & Casaretto Co., prominent Los Angeles seafood packers' agents. Immediate distribution is planned for these Carnation seafood products, with many additional items to follow.

Seafare Corporation is a trade-mark licensee of Carnation Company.

Holiday Hibernation—

● Salmon sales slipped into holiday hibernation earlier than usual this fall, in the view of Seattle brokers and sales managers.

Early fall buying was not great in volume and sellers are inclined to interpret the hand-to-mouth buying evident by early November as indicative of continuation of buying on some such basis rather consistently through the holidays.

One broker puts it thus: "Buyers are going to place orders for their immediate requirements at least, and we are recommending that they look as far ahead as possible, because even with the importation of Japanese salmon, the supply is limited, particularly Reds and Pinks, Puget Sound Sockeyes and Columbia River fancy Chinooks."

Murray Wheeler, NFI, Promotes Fish Week

Murray Wheeler, director of public relations, National Fisheries Institute, was on the Pacific Coast from his Washington headquarters in November for the purpose of reviewing with N.F.I. members and their organizations the next National Fish Parade promotion and other programs for emphasizing fish at the consumer level.

He was warm in his praise of the remarkable showing made on the Pacific Coast and the enthusiastic unity with which they were developed. (Evidence of the size of one of these promotions is found on the cover of this issue.)

Fortune Fisheries Gets Palix Oyster Account

Fortune Fisheries, San Francisco, have been appointed northern California distributors for Palix Oyster Co., Bay Center, Wash.

Palix produces a full line of fresh and frozen Pacific oysters, packaged in jars and cans, and also in institutional packages.

Other new lines for Fortune: northern California institutional distributor for Xman Trout Ranch, Reno, Nev., frozen trout; distributor for Lucido Shellfish Co., California shrimp and crab meat.

The company has been for many years brokers for San Juan Fishing & Packing Co., Chauvin Bros. Louisiana cooked and peeled shrimp; Elmore's Morro Bay abalone, and Sea-Mex Mexican prawns. Fortune has also distributed a full line of "Fortune" brand canned fish products.

Pacific Northwest Market

Market prices currently quoted at presstime by Pacific Northwest brokers and cannery sales department, cases of 48 tins, unless otherwise specified, good quality, as reported by the U. S. Bureau of Commercial Fisheries, Market News Service:

Items and Packages	Per Case
Puget Sound	
Sockeye, halves	$23
Sockeye, quarters	13
Alaska	
Red, talls	33 -34
Red, halves	21 -23
Red, quarters	13
Pink, talls	23
Pink, halves	13 -13.50
Pink, 4-lb. (12)	24
Coho, talls	27 -28
Coho, halves	15 -16
Coho, quarters	9.50
Coho, 4-lb. (12)	27 -28
Chum, summer, tall	19
Chum, fall, tall	17
Chum, halves	11.50
Chum, 4-lb. (12)	20
King, talls	28.50-29
Chinook, halves	17.50-18
Columbia River	
Chinook, ½ oval (12)	14 -14.25
Fancy, halves	24 -26
Fancy, quarters	13 -14.50
Choice, halves	17 -17.50
Tuna, Northwest Pack—	
Albacore, fcy., 7 oz.	11.50-12
Yellowfin, chunk, 6 oz.	9 - 9.25
Yellowfin, chunk, 6½ oz.	9.25- 9.75
Tuna, Featured Pack—	
Albacore, fcy., 7 oz.	14.85-15.25
Albacore, fcy., 3½ oz.	8.50- 9.15
Albacore, chunk, 6½ oz.	10,50-13
Lightmeat, fcy., 7 oz.	13.75
Lightmeat, fcy., 3½ oz.	8.45
Lightmeat, chunk, 6½ oz.	12.00
Canned Crab—	
Dungeness, 24, 6½ oz.	9.50-10
King, 48, 7½ oz., fcy.	29.00
King, 24, ls, fcy.	26.50
King, 24, 7½ oz., fcy.	14.60
Northwest Shrimp—	
Wet Pack, 24, 4½ oz.	7.30

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N.C.A. Sponsors Specific Fish Canning Research

● Details of some of the research projects being sponsored by the Northwest Branch Laboratory of the National Canners Association were given the American salmon industry at its 44th annual convention in Seattle by Dr. Ira Somers, research director of the N. C. A.

Among the specific research projects in which the branch is doing work or seeking the cooperation of scientific institutions are:

1. Color retention in canned fish during heat sterilization;
2. A rapid means of measuring the degree of freshness of material for canning on a positive basis.
3. Applications of antibiotics to fish canning.
4. Means of preventing the development of blue discoloration in canned crab.

Dr. Somers declared the U. S. Food and Drug Administration, with a larger appropriation and staff, is giving particular attention to inspections in the field of plant sanitation, where the law pre-supposes that food packed in an insanitary plant is itself contaminated.

Emphasizing the constant importance of scientific study in the preparation of human food, Dr. Somers said:

"The canning industry stands on a base and against an historic background of research."

Breast-O'-Chicken Sends Brennan to San Francisco

Breast-O'-Chicken Tuna, Inc., San Diego, has appointed J. B. Brennan as resident representative in San Francisco. He will manage contact of direct buying offices of national concerns in that city.

Mr. Brennan was buyer and sales manager for 15 years with the San Diego firm of Klauber-Wangenheim, and for the past 21 years with the Regent Food Co. (Safeway) in Los Angeles and San Francisco as buyer and division supply manager.

Calpak Calif. Division Headquarters in Berkeley

The California Division of California Packing Corporation, which includes the fish packing operations of that company, is now settled in its new Berkeley, Calif., offices at 2600 Seventh street.

Division Manager Don T. Saxby, well known in the Pacific Coast fishing industry, explains that the move brings together virtually all phases of division activities under one roof.

Venezuelian Cannery Adds Modern Equipment

Universal Canning Machinery Co., Pacific Grove, Calif., has shipped a used boiler, a walking-type pre-cooker, and stainless steel table top chain with Chain Belt motors to Compania de Pesca, Cumana, Venezuela, according to Ray Bentley, owner of Universal.

B. C. Packers Extends Subsidiary Activities

In addition to British Columbia Packers' operations at Rupert Fish Co. in the Los Angeles area, the company has established offices in Burlingame, primarily for the promotion of oyster sales throughout northern California. George Dodman, who was formerly with BCP in Toronto, and Ray Brooker, formerly of Halifax, as representatives of Rupert Fish Co.

British Columbia Packers became more active in the Puget Sound area a few months ago through its Seaport Fish Co. in Seattle, dealing in fresh and frozen, this operation resulting from an arrangement with Kayler-Dahl Fish Co. John Antonich, formerly with Kayler-Dahl, is now managing Seaport Fish Co., with John Jamieson.

Several British Columbia Packers men from the home office staff in Vancouver are in Peru with the Empresa Pesquera organization. Gil Read of the Vancouver accounting staff, is secretary and comptroller of the new company, and Art Chapman and Horace Dabner are technicians.

All these developments have not only broadened the base of the company's production facilities; they have underscored the new emphasis being placed on marketing and distribution.

"More and more we are becoming merchandisers of fish," says John M. Buchanan, chairman of the board. "We buy tuna as a raw material from Japan and process it at our Imperial plant at Steveston. We buy sardines from Norway and have bought pilchards from California and South Africa. We sell frozen trout from Denmark and Japan, canned shrimps from Louisiana, South African lobster tails.

LEARNING FROM MISTAKES

The sages do not consider that making no mistakes is a blessing. They believe; rather, that the great virtue of man lies in his ability to correct his mistakes and continually to make a new man of himself.

—Wang—Yang—Ming

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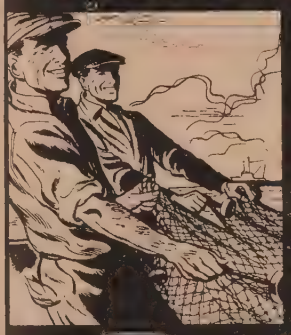

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Low Cook Produces High Quality in Kegani Crab

• Marked improvement in the quality of canned Kegani crabmeat—and perhaps of other varieties as well—results from the new low-temperature, separate - coagulation method of canning developed by Dr. Isamu Osakabe of the Tokyo Fisheries University, according to Masao Watanabe, managing director of the Japan Export Crab Manufacturers Association.

Seeking means of eliminating the development of grey or green discoloration in canned crab, Dr. Osakabe found that the hemocyanin in the crab blood, which is the source of the discoloration, has a different coagulation temperature than the protein of the actual crab meat or muscle.

For example, the muscle protein begins to coagulate at 43.3° C., and is completely coagulated at 49.3° C. On the other hand, the hemocyanin coagulation temperature is 70.7° C.

Thus, if the crab-cooking temperature is held between 50 and 70° the hemocyanin will remain in liquid form and can readily be washed out of the meat. In actual operating practice, the crab was cooked in seawater between 63 and 70° for 10 minutes; was then washed in cool seawater to remove the still-fluid hemocyanin; and was again cooked (at 100° C. for three minutes) to complete coagulation of the protein and to fix the fresh, bright color.

The new process results in greater loss of weight in canning than the former high-temperature cooking process. Thus the new-process crab has more liquid in the can after processing, while the drained weight shows greater decline from the put-in weight.

C. H. Benmore of Henry W. Peabody & Co., London, is said to have been greatly impressed by the improved quality of Kegani crab packed by the new process and to have forecast that the technique would have direct result in increased sale of Kegani crab in the United Kingdom.

Calif. Shrimp Quotas Readied in Jig Time

California's growing ocean shrimp industry for the first time in a single year, in two areas has reached catch limit quotas ahead of the scheduled legal closing date.

The Department of Fish & Game announced that the shrimp fleets operating out of Bodega Bay and Fort Bragg reached their catch limits of 400,000-lbs., and 200,000-lbs. respectively well ahead of the October 15 closing date.

The Marine Resources branch of the department explains that when season's quotas are reached ahead of time, operators are given two weeks notice before the shutdown becomes effective, thus avoiding a sudden curtailment of their business.

The state's shrimp fishery also operates out of Crescent City, Eureka, and Morro Bay. Through August, 393,000-lbs. had been landed at Crescent City as compared to 79,000-lbs. last year.

Grader Fish Freezing Stepped Up at Noyo

Bill Grader, Grader Fish Co., Fort Bragg, Calif., plans on putting in a new sharp freezer in his plant at Noyo Harbor, that will have a capacity of 15,000-lbs. per day.

Raymond P. Lewis, Coordinator, Fish Production, California Division, California Packing Corporation.

Calpak Advances Raymond P. Lewis

Don T. Saxby, California Division Manager, California Packing Corp., has announced the appointment of Raymond T. Lewis, former general foreman of the company's Monterey cannery, as coordinator of fish production with headquarters in the Berkeley office.

J. A. Davi Acquires All of J-D Packing Co.

James A. Davi, formerly one of California's best known sardine fishermen, but for many years one of the operators of J-D Packing Co., San Francisco, has announced that he, his wife, and son Anthony, have purchased the interest of Gus Bruno in the fish cannery and are now the sole owners.

Mr. Bruno was one of the founders of the company. For this year's sardine season the Davi's have made a number of improvements, including the addition of a new Albertoli can feeding system, from John Albertoli, San Francisco; another oval can line, with a Continental Can Co. closing machine, and a New Way Chisholm-Ryder can unscrambler.

J-D Packing Co. packed 100,000 cases of fish last year, according to Mr. Davi. The pack included mackerel, sardines, and squid. All fish is being trucked in from points south of San Francisco.

Washington Packing Will Condense Its Stickwater

Not only has the Washington Packing Corporation a most modern and compact reduction plant at its cannery at Pier 92, San Francisco, but it will shortly have a stickwater plant, according to Tom Miller, plant manager.

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LINES and LEADERS

Tidewater Oil Promotes Hill To Oregon Marketing Chief

Glenn A. Hill, formerly of Sacramento, has been promoted and transferred to marketing manager of Tidewater Oil Company's Oregon district, Walter Brunn, sales chief of the company's 7-state and Hawaii western marketing division, announced here today.

From his headquarters in Portland, Mr. Hill will supervise all of the oil company's sales activities in the states of Oregon and Idaho, south of Coeur d'Alene.

He replaces Albert H. Zinkland, who has been transferred to Tulsa, Okla., to be assistant marketing manager of Tidewater's 23-state central division.

Mr. Hill at the Sacramento district sales office was retail sales supervisor. He has worked for Tidewater since 1927 in various sales positions in California, Nevada, Oregon, and the state of Washington.

Marathon Sets-Up New Food Packaging Division

Marathon Corporation, has recently announced the formation of four new operation divisions and a realignment of executive responsibilities in a long-range program to consolidate marketing and manufacturing functions under single management heads.

Of interest to the frozen food industry is the new food packaging division which is headed by Donald A. Snyder, a vice president of the company. He has most recently been in charge of food packaging sales for Marathon.

The announcement stated that F. M. Deutsch would continue as sales manager for frozen food packaging, a position he has held for several years. He will be assisted by Robert T. Shockley who was recently appointed assistant sales manager for the frozen food packaging section.

Twin Disc Names McMillan L. A. District Sales Engineer

Marshall N. McMillan has been named Twin Disc Clutch Co. district sales engineer in the Los Angeles area and will assist District Representative Art Belcher, who is in charge of Twin Disc's West Coast sales operations.

Mr. McMillan was previously associated with Cummins Engine Company, and with Cummins' Los Angeles dealer. His experience with diesel engines and related equipment, including Twin Disc Products, extends over a period of 10 years.

John Parker, American Marine Paint Owner, Dies Suddenly

The many friends of John Parker, 71, president and owner of the American Marine Paint Co., San Francisco, were saddened and shocked to learn of his sudden death last month.

Mr. Parker joined the American Marine Paint Co. as a salesman in 1912 and became president in 1934. He was born in Alameda and lived there most of his life. He was active in civic affairs until he moved to Atherton in 1943.

American Marine Paint Co. has a factory in San Francisco at 329 Bryant st., and offices at 311 California St. Branches are in Seattle and Wilmington, Calif.; the firm has agencies in Portland, San Diego, Victoria, B. C., Honolulu, and Hong Kong.

Mr. Parker was a director of the California Manufacturers Association, the Marine Exchange, and the Propeller Club. He was a member of the Commonwealth, Commercial, Mariner's and Menlo Country Clubs.

Surviving are his wife, Ruth; a daughter Mrs. Jean Shevlin of Woodside; a son, Richard, San Francisco; a brother, Robert, New York; a sister, Mrs. Florence Favier, Berkeley, and five grandchildren.

R. D. Ronketti Manages Canco Can Factory at Seattle

Lloyd Davis, Pacific Division manager of manufacture for the American Can Company, announced the appointment of Richard D. Ronketti as manager of Canco's Seattle container-manufacturing plant.

The new plant manager in Seattle formerly served in the same capacity at Canco's plant in San Jose, California.

In the plant at Seattle, Mr. Ronketti will supervise the work of more than 675 Canco employees. The Seattle plant has an annual rated capacity to turn out more than 1,275,000,000 containers annually.

Mr. Ronketti's predecessor as manager at Seattle, E. Pilsbury, Jr., has been transferred to manage Canco's plant in St. Louis.

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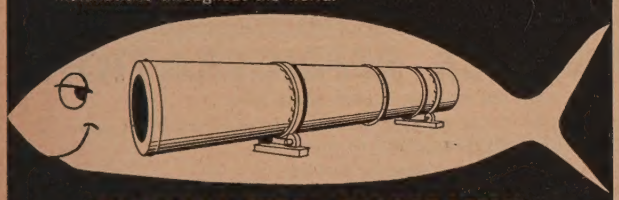

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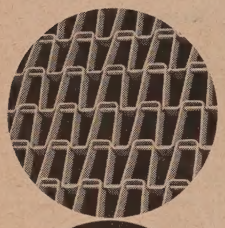

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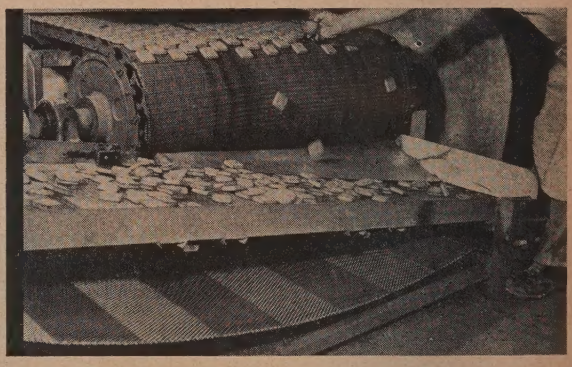

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Wagner: Because the cylindrical power tubes hold the tiny oxide particles firmly in electrical contact clear through the charge and discharge cycle. So Exide-Ironclad Batteries can maintain their high capacity—even under severe vibration—for years of service.

Reporter: Obviously, this is an important feature of Exide-Ironclad Batteries.

Wagner: Yes it is, but it's just one of many engineering details that contribute to its high capacity and long life.

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